



D.H.B. Soni College, Solapur

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India

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REPORT OF DHB SONI TALENT SEARCH EXAM 2017

DHB Soni College Talent Search Exam 2017 was conducted on 12th November 2017. The main objective of organizing this district level exam was to provide students of various schools across Solapur district a platform to showcase their academic abilities and bring the academic scholars in limelight. The exam was for students of 9th and 10th class. It was based on the syllabus of science, math and logic reasoning. The exam was in the form of MCQ's and carried 280 mark. The syllabus was framed and the question paper were set by the team of subject experts.

Various schools all across the district were approached to make the students aware of this exam. In total 450 students from 25 schools in rural as well as city area participated in this event.

The exam was conducted in a very disciplined and secure atmosphere. After assessment the merit list for each standard was prepared and the result of the exam was finalized by the exam committee. Attractive cash Prizes of Rs. 11000/-, Rs. 7500/- & Rs. 5000/- were awarded on the annual day function to the first three students in the merit lists of rural and urban areas for each standard. The consolation prizes were given to five students from each class. Thus the event was a great success and received overwhelming response from students, parents and teachers.

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Nature & Pattern of Exam

- Exam will be of 280 (70 x 4) marks.
- The number of questions will be
Physics : 15
Chemistry : 15
Mathematics : 15
Biology : 15
Logic & Reasoning : 10
- Exam will be in the form of MCQs with one correct choice.
- Answer sheets will be in the form of OMR sheets.
- Exam will be based on the syllabus prescribed by Maharashtra State Board.
- Syllabus is enclosed separately.
- The duration of Exam will be 2 hrs.
- Exam will be conducted in following batches

Batch I : 8 am to 11 am

Batch II : 11 am to 2 pm

Batch III : 2 pm to 5 pm

Prize Details

Particulars	Group A (Std. X Students)	Group B (Std. IX Students)
1st Prize	₹11000/-	₹11000/-
2nd Prize	₹7500/-	₹7500/-
3rd Prize	₹5000/-	₹5000/-
Consolation Prize (5)	₹1000/-	₹1000/-

- Participation certificate for all students.
- Trophies for all participating schools.

Result and Prize Distribution

The Result of The Exam
3rd week of November 2017.

The Prize Distribution

The annual prize distribution ceremony
of our college.

Event Head

Dr. Vasanti C. Iyer

Principal

Mrs. Hardeep R. Bombrá

Vice Principal

Contact

Mrs. Katap Kavita 9890035665
Mr. Chandak Mahesh 9158966166
Mrs. Khedkar Vijayalaxmi 9325223477
Mr. Kantikar Prakash 8087420694

Contact

DHB Soni College,
105/2B, Vaishnavi Nagar, Saiful, Vijapur Road,
Solapur-413004

Phone Number : 0217-2341366, 2301366
Email : sonicollege@gmail.com
website : www.dhbsonicollege.com



Maheshwari Vidya Pracharak Mandal, Pune's
Deshbhakt Harinarayan Bankatlal

SONI COLLEGE, SOLAPUR

(Hindi Linguistic Minority Institute)

Proudly Presents



DHB SONI COLLEGE TALENT SEARCH 2017

a search for
ACADEMIC SCHOLARS

Media Partner

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Soni College
Solapur

Road Map To
**DHB SONI COLLEGE,
SOLAPUR**



WHY TALENT SEARCH

We, at DHB Soni College, Solapur are taking this initiative to bring in limelight the hidden talent and the academic scholars of Solapur district.

OBJECTIVES OF THIS TALENT SEARCH

- To test students' analytical skills in advance which they will require in future while taking competitive exams like CET, CAT, JEE, NEET, CA-CPT, etc.
- To help the students to recognize their knowledge, aptitude and skills in particular subject area (science and maths).
- To provide students a platform where they can showcase their natural abilities.
- To offer guidance to the gifted students and help them to further hone their true potential.

ABOUT DHB SONI COLLEGE

Deshbhakti Harinarayan Bankatal Soni College is one of the leading private educational institutes situated in the city of Solapur. It was founded by the Maheshwari Vidya Pracharak Mandal, Pune in 2006, with a mission to aspire and strive for excellence in education by developing and sharpening the intellectual and human potential of learners for the good of society and our stakeholders.

Over the past decade, the college has earned a prestigious reputation of harnessing a progressive outlook towards education by introducing career oriented courses, ICT enabled teaching facilities, outreach activities and discipline. DHB Soni College offers outstanding graduate programs in B.Sc. (Entire computer science) and BCA, each with a real world focus.

The Junior College was established in 2014 where courses are offered in Science and Commerce stream. Besides preparing students for HSC Board Examination, we also help students to prepare and go through the competitive exams such as IIT, NDA, AIEEE, BITSAT, JEE, NATA, IISAT, SAT, CET, NEET, AIIMS, AFMC, CA-CPT, CS-Foundation and Tally courses.

DHB SONI COLLEGE
TALENT SEARCH 2017

a search for ACADEMIC SCHOLARS

Eligibility Criteria

Group A : Standard Xth
Group B : Standard IXth

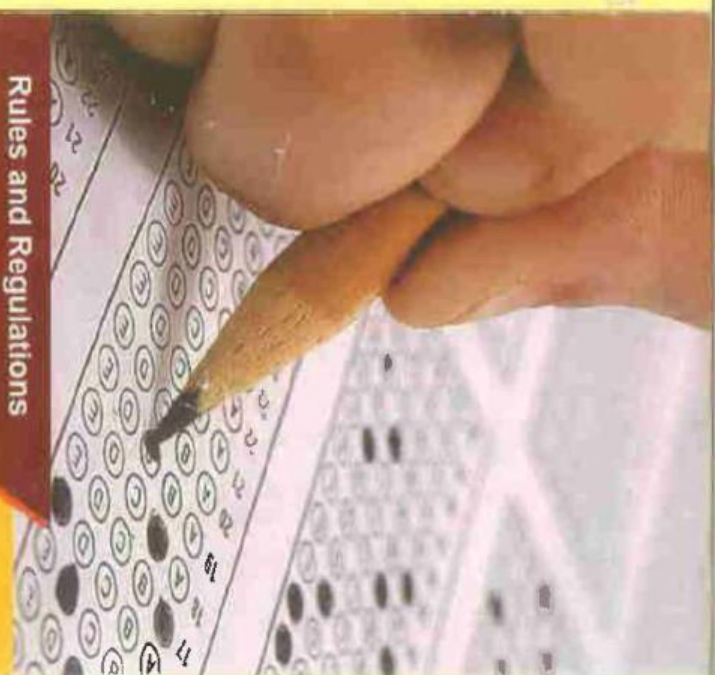
Registration Fee

Rs. 100/- per Student (Non Refundable)

Exam Details

- Date of Exam : 12th November 2017
- Last Date of Registration : 15th October 2017
- Exam Center : DHB Soni College, Solapur
- Duration : 2 hrs
- Time : Between 8am to 5 pm - Batch wise
- Medium of Exam : English
- Results will be published in Divya Marathi in the 3rd week of November 2017

In Technical Support with



Rules and Regulations

- Registration of students through schools.
- It is compulsory for the students to carry duly attested letter and ID card from the school & essential writing material (HB Pencil)
- The board of examiners decision regarding syllabus, paper pattern and result will be final and binding to all.
- Students should report half an hour before their respective batches.
- Students are not allowed to use calculator and phones.
- Students will be disqualified if found malpracticing.
- In case of same score (tie) the prize amount will be shared amongst those students equally.
- **For Upcountry Students** (Outside Solapur city)
 - Upcountry students will be paid travel allowance (to and fro - Actual S.T. fare).
 - The reimbursement is limited to maximum 5 students of each group along with one faculty from every school.
 - In case registration from any upcountry school exceeds 5 remaining students have to bear cost of travel on their own.

To,

The Headmaster/Headmistress

Sub :- Invitation to Participate in "DHB SONI COLLEGE TALENT SEARCH -2017"

→a search for ACADEMIC SCHOLARS on Sunday 12th November 2017

Sir/Madam,

We are pleased to announce that DHB Soni College, Solapur Proudly presents its first DHB SONI COLLEGE TALENT SEARCH 2017 - a search for ACADEMIC SCHOLARS in technical Support with Whiteboard Pvt. Ltd. Ventures, Hyderabad, Telangana on Sunday 12th November 2017.

This is a talent search program at district level created with the objective of recognizing and acknowledging academically talented students from Std. IX and X. The exam is designed in a manner to test their analytical skills in advance which they will require in future while taking competitive test like CET, CAT, JEE, NEET, CA-CPT etc.

"DHB SONI COLLEGE TALENT SEARCH -2017" - a search for ACADEMIC SCHOLARS includes objective type questions from Maths, Science, Logic & Reasoning test. OMR sheets will be provided for marking answers. The exam will be held on 12th November 2017 in college premises between 8 a.m. to 5 p.m. batch wise .

We also wish to inform you that above initiative is done with no profit motive and the fee charged for above test to students is very nominal and affordable.

We solicit your kind co – operation in encouraging the students to participate in the "DHB SONI COLLEGE TALENT SEARCH -2017" - a search for ACADEMIC SCHOLARS in large numbers. The details of the exam are enclosed for your perusal. Please fill in and send the registration form attached herewith before 15th October 2017. Looking forward for your positive participation .

Best regards.

Yours Sincerely,

- Encl. :-
1. Information leaflet
 2. Registration Form
 3. Poster
 4. Syllabus & Sample questions
 5. Sample OMR Sheet

Dr. Vasanti Iyer
Principal


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Solapur



Maheshwari Vidya Pracharak Mandal, Pune's

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SAMPLE QUESTION PAPER WITH SYLLABUS

Std : IX / X	Time : 2 hrs .
Marks : 280	Date : 12 th Nov 2017
Name of the School :	Roll No :

Instruction :

- The question paper consists of five sections
(Physics – 15 , Chemistry 15 , Maths – 15 , Biology – 15 , Logic & Reasoning – 10 Q)
- All Questions are multiple choice questions with one single correct answer. Each correct answer carries 4 marks .
- No negative marks
- Calculators are not allowed.
- Blank space is separately provided for rough work

Physics

1 Mark the correct statement

- a. Displacement = Distance
c. Displacement < Distance

- b. Displacement \leq Distance
d. Displacement \neq Distance

2 Motion of the body is said to be uniform when its

- a. Speed is constant
c. Velocity is constant

- b. Direction is constant
d. Acceleration is constant

3 Two liquids of densities 1.0 gm/cc and 0.5 gm/cc, each of mass 2 grams are uniformly mixed. Then, the total volume of the mixture is

- a) 1.3cm³ b) 1.5cm³ c) 2cm³ d) 6cm³

Chemistry

16. Mary heat some water on the gas and placed a thermometer to record the temperature change which will occur. She observed that the temperature kept increasing till the water start boiling, but after that it is found constant. What might be the temperature at which this has happened?

- a. 200°C b. 4°C c. 10°C d. 100°C

17. The force of attraction between the molecules of water is called:

- a. adhesion b. cohesion c. attraction d. absorption

18. The kelvin temperature for 373°C is :

- a. 273K b. 298K c. 646K d. 479K

Maths

31. The simplest form of $\frac{\sqrt{98}}{2}$ is _____

- a. $\sqrt{2}$ b. $\sqrt{98}$ c. 7 d. $\sqrt{7}$

32. If $x + 4$ is a factor of the polynomial $x^2 + 3x + m$ the value of 'm' is _____

- a. 4 b. -4 c. 3 d. -3

33. Degree of the polynomial is _____ $\sqrt{4}$

- a. $\frac{1}{2}$ b. 1 c. 0 d. Does not exist


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Biology

46. Aspirin comes from which of the following ?
 a. Willow bark b. Oak tree c. Acacia d. Eucalyptus
47. The medulla oblongata is a part of human ?
 a. Heart b. Brain c. Liver d. Sex Organ
48. The Phylloclade commonly found in xerophytic plants is the modified ?
 a. stem b. Roots c. Leaf d. Flower

Logic & Reasoning

- 61) $21:3::574:?$
 a)23 b)82 c)97 d)113
- 62) Which letter is seventh to the right of the thirteenth letter from the left end ?
 a)S b)T c)U d)V
- 63) How many combinations of two – digit numbers having 8 can be made from the following numbers ? 8, 5, 2, 1, 7, 6
 a)9 b)10 c)11 d)12

	Subject	Mah. State Board	CBSE
Group -A (X)	Physics	Electric Spark	Electricity
		All about Electromagnetism	Magnetic effects of electric current
		Wonders of Light – I & II	a) Light Reflection & Refraction b) The Human Eye & Colorful World
	Chemistry	School of Elements	Periodic Classification of Elements
		The Magic of Chemical Reactions	Chemical Reactions & Equations
		The Acid Base Chemistry	Acids, Bases & Salts
	Maths	Arithmetic Progression	Arithmetic Progression
		Quadratic Equations	Quadratic Equations
		Similarity	Triangles
		Circles	Circles
	Biology	Life's Internal Secrets	Life Processes
		The Regulators of Life	Control & Co-Ordination
		The Life Cycle	How do Organisms Reproduce
Logic & Reasoning			
	Subject	Mah. State Board	CBSE
Group -B (IX)	Physics	Laws of Motion	a) Motion b) Laws of Motion
		Work & Energy	Work & Energy
	Chemistry	Measurement of Matter	Atoms & Molecules
		Carbon: An important Element	Structure of the Atom
	Maths	Polynomials	Polynomials
		Linear Equations in Two Variables	Linear Equations in Two Variables
		Parallel lines	Lines & Angles
		Quadrilaterals	Quadrilaterals
	Biology	Classification of Plants	Diversity in Living Organisms (Plantae)
		Useful & Harmful Microbes	Why do we Fall ill
Logic & Reasoning			

Handwritten Signature
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DHB SONI COLLEGE TALENT SEARCH -2017
A Search for Academic Scholars
OMR ANSWER SHEET



Name of the student :- _____
 Name of the school :- _____
 Std :- _____ Batch :- _____
 Roll No :- _____
 Roll No. (in words) :- _____

Candidate Sign.

Invigilator Sign.

Physics				
Q.	(a)	(b)	(c)	(d)
1	(a)	(b)	(c)	(d)
2	(a)	(b)	(c)	(d)
3	(a)	(b)	(c)	(d)
4	(a)	(b)	(c)	(d)
5	(a)	(b)	(c)	(d)
6	(a)	(b)	(c)	(d)
7	(a)	(b)	(c)	(d)
8	(a)	(b)	(c)	(d)
9	(a)	(b)	(c)	(d)
10	(a)	(b)	(c)	(d)
11	(a)	(b)	(c)	(d)
12	(a)	(b)	(c)	(d)
13	(a)	(b)	(c)	(d)
14	(a)	(b)	(c)	(d)
15	(a)	(b)	(c)	(d)

Chemistry				
Q.	(a)	(b)	(c)	(d)
16	(a)	(b)	(c)	(d)
17	(a)	(b)	(c)	(d)
18	(a)	(b)	(c)	(d)
19	(a)	(b)	(c)	(d)
20	(a)	(b)	(c)	(d)
21	(a)	(b)	(c)	(d)
22	(a)	(b)	(c)	(d)
23	(a)	(b)	(c)	(d)
24	(a)	(b)	(c)	(d)
25	(a)	(b)	(c)	(d)
26	(a)	(b)	(c)	(d)
27	(a)	(b)	(c)	(d)
28	(a)	(b)	(c)	(d)
29	(a)	(b)	(c)	(d)
30	(a)	(b)	(c)	(d)

Maths				
Q.	(a)	(b)	(c)	(d)
31	(a)	(b)	(c)	(d)
32	(a)	(b)	(c)	(d)
33	(a)	(b)	(c)	(d)
34	(a)	(b)	(c)	(d)
35	(a)	(b)	(c)	(d)
36	(a)	(b)	(c)	(d)
37	(a)	(b)	(c)	(d)
38	(a)	(b)	(c)	(d)
39	(a)	(b)	(c)	(d)
40	(a)	(b)	(c)	(d)
41	(a)	(b)	(c)	(d)
42	(a)	(b)	(c)	(d)
43	(a)	(b)	(c)	(d)
44	(a)	(b)	(c)	(d)
45	(a)	(b)	(c)	(d)

Biology				
Q.	(a)	(b)	(c)	(d)
46	(a)	(b)	(c)	(d)
47	(a)	(b)	(c)	(d)
48	(a)	(b)	(c)	(d)
49	(a)	(b)	(c)	(d)
50	(a)	(b)	(c)	(d)
51	(a)	(b)	(c)	(d)
52	(a)	(b)	(c)	(d)
53	(a)	(b)	(c)	(d)
54	(a)	(b)	(c)	(d)
55	(a)	(b)	(c)	(d)
56	(a)	(b)	(c)	(d)
57	(a)	(b)	(c)	(d)
58	(a)	(b)	(c)	(d)
59	(a)	(b)	(c)	(d)
60	(a)	(b)	(c)	(d)

Logic & Reasoning				
Q.	(a)	(b)	(c)	(d)
61	(a)	(b)	(c)	(d)
62	(a)	(b)	(c)	(d)
63	(a)	(b)	(c)	(d)
64	(a)	(b)	(c)	(d)
65	(a)	(b)	(c)	(d)
66	(a)	(b)	(c)	(d)
67	(a)	(b)	(c)	(d)
68	(a)	(b)	(c)	(d)
69	(a)	(b)	(c)	(d)
70	(a)	(b)	(c)	(d)

- INSTRUCTION FOR FILLING THE SHEET**
1. Use only dark HB pencil.
 2. Circles should be darkened completely & properly.
 3. This sheet should not be folded or crushed.
 4. Cutting & erasing on this sheet is not allowed.
 5. Do not use any stray marks on the sheet.
 6. Do not use marker/white fluid to hide the mark.

Correct Method			
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

(Signature)
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D.H.B. SONI COLLEGE , SOLAPUR

DHB SONI COLLEGE TALENT SEARCH -2017

A Search for Academic Scholars



Registration Form for Std -IX

1	Name of the School	:	_____
2	Complete Address	:	_____
		:	Taluka _____ Dist - _____
		:	E-mail _____ Phone No : _____
3	Medium (English/Marathi)	:	_____
4	Contact Person / Faculty Incharge	:	_____
5	Contact / Mobile No. :	:	_____

Sr.	Name of the Student	Contact Number
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

Principal Sign. & Seal

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D.H.B. SONI COLLEGE, SOLAPUR
DHB SONI COLLEGE TALENT SEARCH – 2017
A Search for Academic Scholars

Date 12/1/2017

Question Booklet

Seat No. :

Batch – II

Standard – IX

Max. Marks : 280

Instructions for Candidates

1. Please write your **Exam. Seat No. clearly**. Exam. Seat No. is **06 digit code number**. Make sure that no block is left unfilled.
2. **All Questions are Compulsory.**
3. This Question paper has **3 sections** consisting of **total 70 Questions**.
Section I : Maths : Q. 1 to Q. 30
Section II : Science : Q. 31 to Q. 60
Section III : Logic & Reasoning : Q. 61 to Q. 70
4. Each **Question** has **four options**, from which **one option** is correct.
Correct Method
5. You have to darken the circles for correct answer in the provided **OMR sheet**.
6. Each **Question** carries **4 marks**.
7. Use only **Dark HB Pencil / Pen**.
8. There is **no negative marking** for incorrect answers.
9. **Rough work** is to be done at the **end** of the booklet.
10. **College decision is final & binding** in regard to any conflicts.
11. All disputes are subject to Solapur jurisdiction.

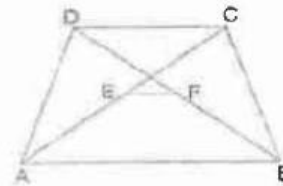
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MATHS

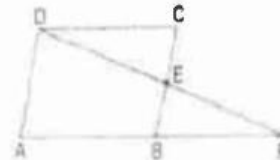
1. In a trapezium ABCD, if E and F be the midpoints of the diagonals AC and BD respectively. Then, EF = ?

- | | |
|---------------------------|---------------------------|
| 1. $\frac{1}{2} AB$ | 2. $\frac{1}{2} CD$ |
| 3. $\frac{1}{2}(AB + CD)$ | 4. $\frac{1}{2}(AB - CD)$ |



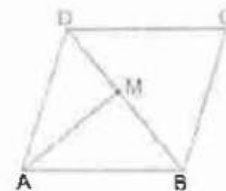
2. In the given figure, ABCD is a || gm and E is the midpoint of BC. Also, DE and AB when produced meet at F. Then,

- | | |
|--------------------------|-------------------|
| 1. $AF = \frac{3}{2} AB$ | 2. $AF = 2AB$ |
| 3. $AF = 3AB$ | 4. $AF^2 = 2AB^2$ |



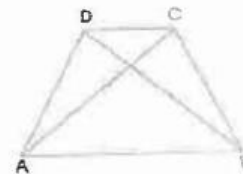
3. In the given figure, ABCD is a parallelogram, M is the midpoint of BD and BD bisects $\angle D$. Then, $\angle AMB = ?$

- | | |
|---------------|---------------|
| 1. 45° | 2. 60° |
| 3. 90° | 4. 30° |



4. In the trapezium ABCD, if $AB \parallel CD$, then

- | | |
|---------------------------------|---------------------------------|
| 1. $BC^2 + AD^2 + 2BC \cdot AD$ | 2. $AB^2 + CD^2 + 2AB \cdot CD$ |
| 3. $AB^2 + CD^2 + 2AD \cdot BC$ | 4. $BC^2 + AD^2 + 2AB \cdot CD$ |



5. Divide Rs. 80 among three people so that the second will have twice as much as the first, and the third will have Rs.5 less than the second. The

least amount goes to

- | | |
|-----------------|------------------------------|
| 1. First person | 2. Second person |
| 3. Third person | 4. All will get equal amount |
6. Difference in the measures of two supplementary angles is 102° . The two angles are ____
- | | |
|-----------------------|-------------------------|
| 1. 39 and 141 degrees | 2. 114 and 66 degrees |
| 3. 93 and 87 degrees | 4. Cannot be determined |

7. +ve value of 'a' in $\frac{a+3}{2a+8} = \frac{4}{a^2-16}$

- | | |
|------|------|
| 1. 5 | 2. 4 |
| 3. 1 | 4. 0 |

8. All polynomials are algebraic expressions and all algebraic expressions are polynomials. The above statement is ____

- | | |
|---------------------------------------|----------------------|
| 1. Always true | 2. Always false |
| 3. Sometimes true and sometimes false | 4. None of the above |

9. If $x^2 - 3x + 2$ is divided by $2x - 1$, then the remainder is ____

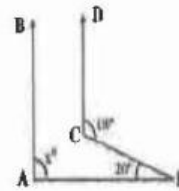
- | | |
|----------|-----------|
| 1. 35/16 | 2. -35/16 |
| 3. +9/16 | 4. 3 |

10. The remainder when $x^3 - 6x^2 - 2x + 32$ is divided by $x^2 - 3x - 10$ is ____

- | | |
|------------|------------|
| 1. $2 + x$ | 2. $x - 2$ |
| 3. $2 - x$ | 4. 0 |

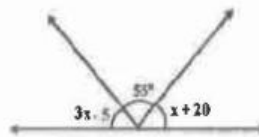
11. In the given figure $\overline{AB} \parallel \overline{CD}$ then, $x =$ _____

1. 110°
2. 90°
3. 100°
4. 80°



12. The polynomial that must be added to $x^4 + 2x^3 - 2x^2 + x - 1$ so that the result is exactly divisible by $x^2 + 2x - 3$ is _____

1. $x + 2$
2. $x - 2$
3. $-x + 2$
4. $-x - 2$



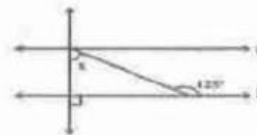
13. In the adjoining figure $\angle x =$ _____

1. 37.5°
2. 27.5°
3. 17.5
4. 47.5°

14. Two complementary angles are in the ratio 4:5, then the larger angle is _____

1. 70°
2. 90°
3. 110°
4. 130°

supplement of the



15. In the given figure $a \parallel b$, then $\angle x =$ _____

1. 65°
2. 35°
3. 55°
4. 45°

PHYSICS

16. A box is pushed through a distance of 4m across a floor offering 100N resistance. The work done by the resisting force is

1. -40J
2. +40J
3. -400J
4. +20J

17. If a force of 17N displaces a body by 1m along the line of action of force then the workdone is _____

1. 1J
2. 17J
3. 170J
4. None of the above

18. A bucket is pulled by a rope from a well. The workdone by the gravitational force is _____

1. negative
2. positive
3. zero
4. can't say

19. A ball of mass 250g has a kinetic energy of 0.02J then the velocity of the ball is

1. 0.8ms^{-1}
2. 800cms^{-1}
3. 8.0ms^{-1}
4. 0.4ms^{-1}

20. What is the speed of the body moving with uniform acceleration at the midpoint of two points on a straight line. Where the speed are U and V respectively.

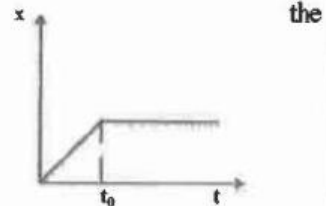
1. $\sqrt{\frac{V^2 - U^2}{2}}$
2. $\sqrt{V^2 + U^2}$
3. $\sqrt{\frac{V^2 + U^2}{2}}$
4. $\sqrt{V - U}$

21. Mark the correct statement?

M. Jeyaraj



1. Displacement = Distance
 2. Displacement \leq Distance
 3. Displacement $<$ Distance
 4. Displacement \neq Distance
22. The momentum of a body is increased by two times. The kinetic energy of the body is
1. Increases by 2 times
 2. Increases by 4 times
 3. Decrease by 2 times
 4. Doesn't change
23. A person performs 420J of work in 5 minutes. The power delivered by him is
1. 1.4W
 2. 2.8W
 3. 0.7W
 4. 5.6W
24. A car travels from rest with a constant acceleration 'a' for 't' seconds. What is the average speed of the car for its journey if the car moves along a straight road?
1. $\frac{a^2 t}{2}$
 2. $\frac{a^2 t^2}{3}$
 3. $\frac{at}{2}$
 4. zero
25. A block of mass 1 kg is raised through a height 'h'. If the potential energy is increased by 49J. The height to which it is raised is
1. 1m
 2. 0.5m
 3. 2m
 4. 5m
26. The direction of momentum is
1. opposite direction to the direction of velocity
 2. in the direction of velocity
 3. momentum is a scalar
 4. all the above
27. The mass of a cyclist together with the bicycle is 90kg. If its speed increases from $\frac{5}{3}$ m/s to $\frac{10}{3}$ m/s. The workdone by the cyclist is
1. 150J
 2. 375J
 3. 125J
 4. 500J
28. From the displacement versus time graph, given in figure it can be concluded that
1. the particle is continuously moving in positive x-direction
 2. the particle is at rest
 3. the velocity increases upto a time t_0 , and then becomes constant
 4. the particle moves at a constant velocity up t_0 a time t_0 and stops.
29. The rate of change of momentum of a body is directly proportional to the net external force acting on the body is called
1. Newton's 3rd law of motion
 2. Newton's law of gravitation
 3. Newton's 2nd law of motion



4. Law of inertia

30. The work done in winding the key to toy car is stored as

1. Potential energy
2. Kinetic energy
3. Chemical energy
4. Geothermal energy

CHEMISTRY

31. According to Rutherford's atomic model, if the electrons lose energy continuously, the observed atomic spectra should be _____, consisting of _____ merging one into another.

1. continuous, sharp lines
2. discontinuous, sharp lines
3. continuous, broad bands
4. discontinuous, broad bands

32. What is the reason for the identical chemical properties of all the isotopes of an element?

1. Same number of valence electrons
2. Same number of protons
3. Same number of neutrons
4. Both B and C

33. When alpha particles are sent through a gold foil most of them go straight through the foil. The reason is:

1. alpha particles are much heavier than the electrons
2. alpha particles are positively charged.
3. most of the atom is empty
4. none of the above

34. The maximum number of electrons in a main shell of an atomic orbital is equal to :

1. n^2
2. $2n^2$
3. $2n$
4. $4n+1$

35. An atom with atomic number 82 and mass number 208 contains:

1. 82 protons and 82 electrons
2. 82 protons and 126 neutrons
3. 82 protons, 82 electrons and 126 neutrons
4. 82 neutrons, 126 protons and 126 electrons

36. Nucleus model of atom was proposed by:

1. Thomson
2. Neils Bohr
3. Moseley
4. Rutherford

37. Cathode rays have:

1. only mass
2. only charge
3. neither mass nor charge
4. both mass and charge

38. Which of the following electronic configurations is wrong?

1. $\text{Be}(3) = 2, 1$
2. $\text{O}(8) = 2, 6$
3. $\text{S}(16) = 2, 6, 8$
4. $\text{P}(15) = 2, 8, 5$

39. Which of the following is the formula of the compound magnesium phosphite?

1. Mg_2PO_3
2. $\text{Mg}_3(\text{PO}_3)_2$
3. MgHPO_3
4. None of these

40. Co stands for _____ while CO stands for _____

1. the atoms of the element cobalt; carbon monoxide

2. the atoms of the element carbon monoxide
3. the atom of the element cobalt; the molecules of the compound carbon monoxide
4. the molecules and atoms of element carbon.

41. What is the number of particles in one mole of a substance?

1. 6.023×10^{23}
2. 6.023×10^{-23}
3. 6.023
4. 3×10^8

42. Chemical analysis of a carbon compound gave the following percentage composition by weight of the elements present in it. Carbon = 10.06%, hydrogen = 0.84%, chlorine = 89.10%. Calculate the empirical formula of the compound.

1. $C_2H_2Cl_2$
2. $CHCl_2$
3. $CHCl_3$
4. $C_4H_4Cl_4$

43. How many gram of Na_2CO_3 are to be weighed to get 0.1 mole of Na_2CO_3 ?

1. 10g
2. 5g
3. 10.6g
4. 12.6g

44. Calculate the number of moles present in 60g of NaOH.

1. 1.2
2. 1.5
3. 2.5
4. 0.15

45. Calculate the weight of carbon and oxygen present in 3 moles of carbon dioxide.

1. 35g, 95g
2. 36g, 96g
3. 96g, 35g
4. 40g, 58g

BIOLOGY

46. The Linnaean system of classification uses _____ as the basis of organism classification

1. leaf anatomy
2. flower colour
3. sexual organs
4. stem and root structure.

47. A drawback of the 'five kingdom classification', is:

1. inclusion of unicellular eukaryotes in the kingdom Protista
2. inclusion of bacteria and cyanobacteria in the kingdom Monera
3. distinction of the unicellular viruses
4. inclusion of fungi as the third major evolutionary kingdom

48. Vascular and mechanical tissue is absent in:

1. Bryophyta
2. Pteridophyta
3. Gymnosperms
4. Angiosperms

49. The most primitive vascular plants are:



50. Pteridophytes differ from bryophytes in having:

1. vascular tissues
2. archegonia
3. alternation of generations
4. motile sperms

51. Fungi differ from algae in being mostly:

1. heterotrophic
2. autotrophic
3. parasitic
4. epiphytic



FUNGI



ALGAE

52. Funaria is a bryophyte because it :

1. lacks roots
2. lacks xylem
3. has dominant sporophyte
4. has multicelled and jacketed sex organs.



53. In which of the following groups would you place a plant which produces spores and embryos but lacks seeds and vascular tissues?

1. Fungi
2. Pteridophytes
3. Bryophytes
4. Gymnosperms

54. Which of the following insects carries the virus that causes yellow fever?



55. Which of the following causes amoebic dysentery?

1. Entamoeba histolytica
2. Giardia lamblia
3. Escherichia coli
4. Entamoeba coli

56. Which of the following is not a viral infection?

1. Pertussis
2. Rabies
3. Rubella
4. Chicken pox

57. Which of the following body defenses trap, engulf and sweep diseases-causing agents towards the body openings?

1. Body secretions
2. Enzymes and compounds in the blood
3. Mucous membranes
4. Immune system

58. Which of these statements listed below is true about a common cold?

1. common cold is not contagious
2. the common cold virus does not have its own RNA
3. Common cold usually takes two months to clear up
4. the common cold virus can leave the body through the mucus of infected people.

59. Vaccination:

1. develops resistance against the attack of a disease
2. can control every disease

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- 3. kills all the disease causing organisms in the area
- 4. involves the use of antibodies.

60. The diseases caused by defects that are present right from the birth knows as:

- 1. hereditary diseases
- 2. hormonal diseases
- 3. genetic diseases
- 4. congenital diseases

LOGIC AND REASONING

61. Select the figure from the four options, which when places in the blank space of figure(X) would complete the pattern.

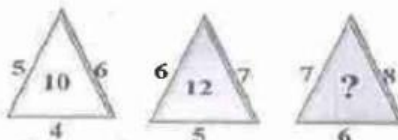


- 1.
- 2.
- 3.
- 4.

62. Find the missing character from the given options.

- 1. 3
- 3. 12

- 2. 6
- 4. 14

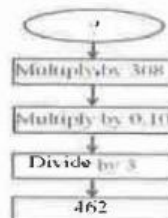


63. If is to , is to , is to , is to .

- 1. (Eraser)
- 2. (Box)
- 3. (Pencil)
- 4. (Sharpener)

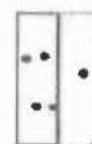
64. What is the number you started with?

- 1. 5
- 3. 56
- 2. 45
- 4. 25



65. A transparent paper is folded along the dotted line. Choose the correct option that represents the resultant figure.

- 1.
- 2.
- 3.
- 4.



66. If '-' means '+', '+' means '-' and '÷' means 'x', and 'x' means '-', then $40 \div 2 \times 8 + 8 - 5$?

- 1. 48
- 2. 84
- 3. 165
- 4. 156

67. In the following question, four options are given; out of which three are alike in same manner and one is different. Choose out the odd one.

- 1. parrot
- 2. Bat
- 3. Crow
- 4. Sparrow

68. If TALENT is coded as ATELTN then how is GANDHI coded.

- | | |
|-----------|------------|
| 1. ADGNIH | 2. AGDNIH |
| 3. AGDNHI | 4. AIHDNAG |

69. What day of the week was 28th July 2007

- | | |
|------------|-------------|
| 1. Sunday | 2. Saturday |
| 3. Tuesday | 4. Monday |

70. A person travels a distance of 7km towards east from his house, then travels 7km towards north and then a distance of 7km towards east and finally 7km towards north what is the vertical distance traveled by him?

- | | |
|---------|---------|
| 1. 14km | 2. 25km |
| 3. 15km | 4. 12km |


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DHB SONI COLLEGE TALENT SEARCH – 2017
A Search for Academic Scholars

Date : 12/11/2017

Question Booklet

Seat No :

Batch – II

Standard – X

Max. Marks : 280

Instructions for Candidates

1. Please write your **Exam. Seat No. clearly**. Exam. Seat No. is **06 digit code number**. Make sure that no block is left unfilled.
2. All Questions are **Compulsory**.
3. This Question paper has **3 sections** consisting of **total 70 Questions**.
Section I : Maths : Q. 1 to Q. 30
Section II : Science : Q. 31 to Q. 60
Section III : Logic & Reasoning : Q. 61 to Q. 70
4. Each **Question** has **four options**, from which one option is correct.
Correct Method

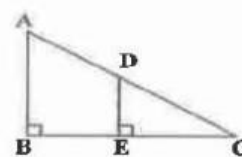
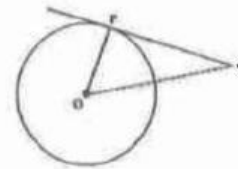
•	○	○	○
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5. You have to darken the circles for correct answer in the provided **OMR sheet**.
6. Each **Question** carries **4 marks**.
7. Use only **Dark HB Pencil / Pen**.
8. There is **no negative marking** for incorrect answers.
9. **Rough work** is to be done at the **end** of the booklet.
10. **College** decision is **final & binding** in regard to any conflicts.
11. All disputes are subject to Solapur jurisdiction.


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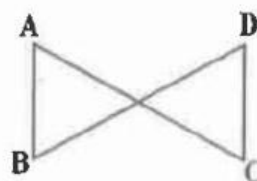
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MATHS

- The common difference in $x+y, x-y, x-3y, \dots$
 - $-y$
 - $-2y$
 - y
 - $2y$
- The number of circles drawn through three non-collinear points _____
 - 1
 - zero
 - Infinite
 - More than one
- From a point Q, the length of the tangent to a circle is 24 cm and the distance of Q from the centre is 25 cm. then the radius of the circle is:
 - 7cm
 - 15cm
 - 15cm
 - 24.5cm
- A line intersecting a circle in two points is called a
 - Secant
 - Sector
 - Diameter
 - Chord
- If the discriminant of a quadratic equation is less than 0 then the roots are _____
 - Real and equal
 - Real and distinct
 - Imaginary
 - Rational and equal
- A tangent PQ at a point P of a circle of radius 5 cm meets a line through the centre O at a point Q so that $OQ = 12$ cm. Length of PQ is:
 - 12cm
 - 13cm
 - 8.5cm
 - $\sqrt{119}$ cm
- If the sum of first 'n' terms of an A.P. be $3n^2 - n$, $n \neq 0$ and it's common difference is 6, then its first term is _____
 - 2
 - 3
 - 1
 - 4
- The set of prime numbers form _____
 - A.P.
 - G.P.
 - H.P.
 - None of above
- Identify the quadratic equations in 'x' from the following
 - $x+y-2=0$
 - $(x+y)^2 + 6 = (x-y)^2 + 4xy$
 - $(x-5)^2 = 4$
 - All the above
- For $3x^2 - 5x - 8 = 0$, the roots are _____
 - Real and equal
 - Rational and equal
 - Imaginary
 - Rational and distinct
- If $x = 2$ is a root of the equation $x^2 - 5x + k = 0$, then $k =$ _____
 - 3
 - 6
 - 6
 - 0
- If α, β are the roots of the equation $x^2 + 3x - 2 = 0$, then $\alpha^2\beta + \alpha\beta^2 =$ _____
 - 6
 - 3
 - 6
 - 3
- In the adjacent triangle $AB \perp BC$, $DE \perp BC$ $AB=9$ cm. $DE=3$ cm and $AC=25$ cm, then $CD =$ _____
 - $\frac{25}{3}$ cm
 - $\frac{15}{25}$ cm
 - $\frac{25}{15}$ cm
 - $\frac{25}{9}$ cm



- In the adjacent figure $\triangle AOB \sim \triangle COD$. Then which one of the following is true
 - $\overline{AB} = \overline{OB}$
 - $\overline{OA} = \overline{OD}$
 - $\overline{OB} = \overline{OD}$
 - $\overline{AB} = \overline{OB}$



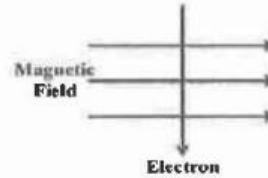
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15. If ΔPQR is $\cong \Delta EFG$ then $\angle R =$ _____
1. $\angle E$
 2. $\angle F$
 3. $\angle G$
 4. None of these

PHYSICS

16. An electron enters a magnetic field at right angles to it, as shown in the figure. The direction of force acting on the electron
1. to the right
 2. to the left
 3. out of the page
 4. into the page



17. Magnetic field is a quantity
1. that has only direction
 2. that has only magnitude
 3. that has both magnitude and direction
 4. none of the above
18. The frequency of alternating current is 50Hz, it changes direction for every
1. 1/100 sec.
 2. 1/50 sec.
 3. 1/25 sec
 4. 50 sec
19. The principal focus of a spherical mirror lies
1. more towards the pole and far from the center of curvature
 2. more towards the centre of curvature and away from the pole
 3. midway between the centre of curvature and pole
 4. anywhere between the pole and centre of curvature.
20. A ray passing through the centre of curvature of a concave mirror, after reflection
1. retraces its path
 2. becomes parallel to the principal axis
 3. passes through the focus
 4. none of the above
21. In a convex mirror, when the object is placed at infinity
1. the position of the image is at focus, real and erect
 2. the position of the image is at focus, virtual and erect
 3. the position of the image is at centre of curvature, virtual and inverted
 4. the position of the image is at centre of curvature, real and erect
22. The amount of electrical energy consumed by a 250W TV set in 1 hour is
1. 900 kJ
 2. 250kJ
 3. 14.4 kJ
 4. 0.004 kJ
23. A generator works on the basis of
1. electric induction
 2. magnetic induction
 3. electromagnetic induction
 4. electromagnetic conduction
24. At the time of short circuit, the current in the circuit
1. reduces substantially
 2. does not change
 3. increases heavily
 4. vary continuously
25. The phenomenon of electromagnetic induction is
1. the process of charging a body
 2. the process of generating magnetic field
 3. producing induced current in a coil due to relative motion between a magnet and the coil
 4. the process of rotating a coil of an electric motor.
26. Which among the following statements is incorrect
1. The power of a lens is reciprocal of its focal length
 2. The S.I unit of power is dioptre

3. The power of a convex lens is positive
 4. The power of concave lens is positive
27. Which among these is a refractive defect of vision
 1. myopia 2. hyper metropia 3. presbyopia 4. all the three
28. Which among these regulates and controls the amount of light entering the eye
 1. pupil 2. cornea 3. iris 4. retina
29. The change in focal length of an eye lens is caused by the action of the
 1. pupil 2. retina 3. ciliary muscles 4. iris
30. No matter how far you stand from a mirror, your image appears erect. The mirror is likely to be
 1. plane 2. concave
 3. convex 4. either plane or convex

CHEMISTRY

31. When zinc reacts with sodium hydroxide, the products formed are:
 1. Zinc hydroxide and sodium
 2. Sodium zincate and water
 3. Sodium zincate and hydrogen
 4. Sodium zincate and oxygen
32. pH of sodium carbonate solution will be:
 1. 7 2. >7 3. <7 4. 1
33. Which of the following acid is present in vinegar?
 1. Lactic acid 2. Malic acid 3. Acetic acid 4. Tartaric acid
34. Basic salts are formed by neutralisation of:
 1. strong acid and strong base
 2. strong acid and weak base
 3. weak acid and weak base
 4. strong base and weak acid
35. Plaster of Paris is obtained by:
 1. adding water to calcium sulphate
 2. adding sulphuric acid to calcium hydroxide
 3. heating gypsum to a very high temperature
 4. heating gypsum to 120°C
36. $\text{Fe}_2\text{O}_3 + 2\text{Al} \rightarrow \text{Al}_2\text{O}_3 + 2\text{Fe}$ the above reaction is an example of
 1. Combination reaction
 2. Decomposition reaction
 3. Displacement reaction
 4. Double decomposition reaction
37. What happens when dil. Hydrochloric acid is added to iron filings? Choose e correct answer.
 1. Hydrogen gas and iron chloride are produced
 2. Chlorine gas and iron hydroxide are produced
 3. No reaction takes place
 4. Iron salt takes place
38. $2\text{PbO}_{(s)} + \text{C}_{(s)} \rightarrow 2\text{Pb}_{(s)} + \text{CO}_{2(g)}$ Which of the following statements are correct for the above chemical reaction?
 i. Lead is reduced
 ii. Carbon dioxide is oxidized
 iii. Carbon is oxidized
 iv. Lead oxide is reduced
1. A and B
 2. A and C
 3. A, B and C 4. All

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39. The chemical equation $\text{BaCl}_2 + \text{Na}_2\text{SO}_4 \rightarrow \text{BaSO}_4 + 2\text{NaCl}$ represents following type of chemical reaction.
1. Displacement
 2. Combination
 3. Decomposition
 4. Double displacement
40. The reaction of formation hydrogen chloride from hydrogen and chloride represents following type of chemical reaction
1. Displacement
 2. Combination
 3. Decomposition
 4. Double displacement
41. The properties which increase on going down the group are _____.
1. Ionization energy and electro negativity
 2. Atomic size and ionization energy
 3. Electro negativity and atomic size
 4. Metallic character and reducing power
42. Which of the following belong to the same group? A^{3+} (number of electrons = 10); B^{2+} (number of electrons = 10); C (number of electrons = 5); D (number of electrons = 31)?
1. A, B, C
 2. B, C, D
 3. A, C, D
 4. A, D, B
43. The element which accepts electrons readily to form anion belongs to:
1. VII A group and 2nd period
 2. VII A group and 3rd period
 3. O group and 3rd period
 4. VI A group and 3rd period
44. Na^+ , F^- and Mg^{+2} ions have the same:
1. size
 2. electronic configuration
 3. ionization energy
 4. nuclear charge
45. If I_1 is the 1st ionization potential, I_2 is the 2nd ionization potential, I_3 is the 3rd ionization potential and I_4 is the fourth ionization potential of an element, then which of the following has the least value?
1. I_1
 2. I_2
 3. I_3
 4. I_4

BIOLOGY

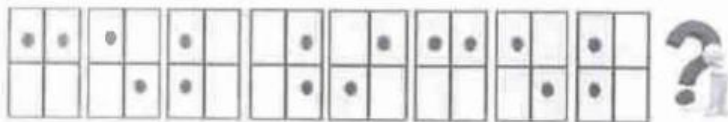
46. Which of the following has the longest small intestine?
- | | | | |
|--------------|-------------|--------------|--------------|
| 1. Carnivore | 2. Omnivore | 3. Herbivore | 4. Autotroph |
|--------------|-------------|--------------|--------------|
47. Which of the following component of our food is digested by an enzyme which is present in saliva as well as in pancreatic juice?
- | | | | |
|-------------|--------|-------------|-----------------|
| 1. Proteins | 2. Fat | 3. Minerals | 4. Carbohydrate |
|-------------|--------|-------------|-----------------|
48. The breathing and respiration in woody stem of a plant takes place through:
- | | | | |
|--------------|--------------|-------------------|-----------------|
| 1. root hair | 2. lenticels | 3. closed stomata | 4. open stomata |
|--------------|--------------|-------------------|-----------------|
49. Which of the following is not produced during anaerobic respiration in unicellular fungus?
- | | | | |
|------------------------------------|-------------------------|------------------|--------|
| 1. $\text{C}_2\text{H}_5\text{OH}$ | 2. H_2O | 3. CO_2 | 4. ATP |
|------------------------------------|-------------------------|------------------|--------|



50. One of the following does not have a nucleus. This one is :
 1. red blood cell 2. white blood cell 3. guard cell 4. epidermal cell
51. The plant part which exhibits negative geotropism is :
 1. root 2. stem 3. branch 4. leaves
52. The stimulus in the process of thigmotropism is:
 1. touch 2. gravity 3. light 4. chemical
53. Which of the following helps in maintaining posture and balance of the human body?
 1. Cerebellum 2. Cerebrum 3. Medulla 4. Pons
54. Which of the following hormone prepares our body for action in emergency situations?
 1. Testosterone 2. Growth hormone 3. Adrenaline 4. Insulin
55. Electrical impulse travels in a neuron from:
 1. dendrite → axon → axon end → cell body
 2. cell body → dendrite → axon → axon end
 3. dendrite → cell body → axon → axon end
 4. axon end → axon → cell body → dendrite
56. A multicellular organism which reproduces by budding is:
 1. Amoeba 2. Yeast 3. Leishmania 4. Hydra
57. The ability of a cell to divide into several cells during reproduction in Plasmodium is called:
 1. budding 2. fragmentation 3. binary fission 4. multiple fission
58. Which one of the following best describes the function of the umbilical cord? It:
 1. feeds the embryo with digested substances
 2. conveys nutrients and wastes to and from the embryo respectively
 3. removes waste matter from the embryo to the mother's blood
 4. supplies oxygenated blood from the mother to the embryo
59. Which of the following is the correct sequence of events of sexual reproduction in flowers?
 1. Pollination, fertilisation, seed, embryo
 2. Seed, embryo, fertilisation, pollination
 3. Pollination, fertilisation, embryo, seed
 4. Embryo, seed, pollination, fertilisation
60. The ratio of number of chromosomes in a human zygote and a human sperm is:
 1. 2:1 2. 3:1 3. 1:2 4. 1:3

Logic and Reasoning

61. Identify the odd one from the following
 NMLK, UTSR, IHGE, ZYXW
 1. UTSR 2. IHGE 3. NMLK 4. ZYXW
62. Which of the following figures comes next in the given pattern?



1. 2. 3. 4.

63. Which one of the following sets is best represented in the adjoining diagram?
 1. Animals, insects, cockroaches
 2. Country, states, districts



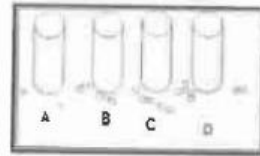
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3. Sun, planets, earth
4. Classrooms, blackboard, school

64. Consider the following steps regarding the beans.

1. Fill cup A with beans.
2. Pour half of the beans from cup A into cup B.
3. Pour half of the beans from cup B into cup C.
4. Pour half of the beans from cup A into cup D.

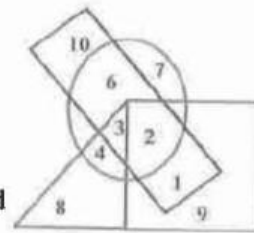


Which cup contains the maximum number of beans now?

1. cup C
 2. cup B
 3. cup D
 4. All cups are equal
65. In the following diagram the boys who are athletic and are disciplined are indicated by which number?

1. 1
2. 2
3. 6
4. 10

- Boys
- Athletics
- Girls
- Disciplined



66. $23 : 3 :: 72 : =$

1. 1
2. 2
3. 3
4. 4

67. If 196 is mapped to 256 then 324 is mapped to

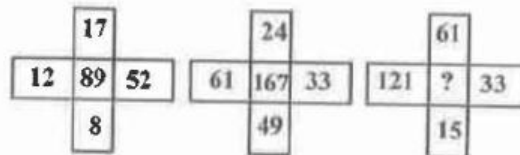
1. 1361
2. 400
3. 411
4. 484

68. Which year will have the same calendar as 2001?

1. 2000
2. 2002
3. 2001
4. 2003

69. A person walks 4km towards West, then turns to his right to travel 9km. He turns towards East and travels 12km. Finally, he travels 3 km towards South. How far is he from the initial position (in km)?

1. 15
2. 23
3. 18
4. 10



70. In the following numbers select the missing number from the given responses.

1. 240
2. 230
3. 232
4. 251

Principals
PRINCIPAL
D.H.B. Soni College,
Solapur



D.H.B. SONI COLLEGE , SOLAPUR
DHB SONI COLLEGE TALENT SEARCH -2017
ANSWER KEY
CLASS - IX

MATHS									
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
a	b	c	d	a	a	a	a	c	c
11.	12.	13.	14.	15.					
a	b	b	d	b					
PHYSICS									
16.	17.	18.	19.	20.	21.	22.	23.	24.	25.
c	b	a	d	c	b	b	a	c	d
26.	27.	28.	29.	30.					
b	b	c	c	a					
CHEMISTRY									
31.	32.	33.	34.	35.	36.	37.	38.	39.	40.
c	a	c	b	c	d	d	c	b	c
41.	42.	43.	44.	45.					
a	c	c	b	b					
BIOLOGY									
46.	47.	48.	49.	50.	51.	52.	53.	54.	55.
c	c	a	b	a	a	d	c	a	a
56.	57.	58.	59.	60.					
a	d	d	a	d					
LOGIC AND REASONING									
61.	62.	63.	64.	65.	66.	67.	68.	69.	70.
d	d	d	b	b	b	b	b	b	a

D.H.B. SONI COLLEGE , SOLAPUR
DHB SONI COLLEGE TALENT SEARCH -2017
ANSWER KEY
CLASS - X

MATHS									
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
b	a	a	a	c	d	a	d	c	d
11.	12.	13.	14.	15.					
b	c	a	c	c					
PHYSICS									
16.	17.	18.	19.	20.	21.	22.	23.	24.	25.
d	c	a	c	a	b	a	c	c	c
26.	27.	28.	29.	30.					
d	d	a	c	d					
CHEMISTRY									
31.	32.	33.	34.	35.	36.	37.	38.	39.	40.
c	b	c	d	d	c	a	c	d	b
41.	42.	43.	44.	45.					
d	c	b	b	a					
BIOLOGY									
46.	47.	48.	49.	50.	51.	52.	53.	54.	55.
c	d	b	b	a	b	a	a	c	c
56.	57.	58.	59.	60.					
d	d	b	c	a					
LOGIC AND REASONING									
61.	62.	63.	64.	65.	66.	67.	68.	69.	70.
b	c	c	d	b	b	a	a	d	b

DHB SONI COLLEGE TALENT SEARCH -2017

Toppers List - IX

Rank	Name of the Student		School Name	Prize Amount
	Seat No	Marks		
1	101133	Mundhe Siddhant Hari	St. Joseph High School, Railway Lines, Solapur	11000.00
2	101032	Biyani Purav Naresh	S R Chandak English High School	7500.00
2	101093	Katare Ameya Anand	St. Joseph High School, Railway Lines, Solapur	5000.00
3	101077	Joshi Ojas Sunil	St. Joseph High School, Railway Lines, Solapur	1000.00
4	101069	Hanrao Shreyes	Little Flower Convent School	1000.00
5	101135	N Sai Swaroop	St. Joseph High School, Railway Lines, Solapur	1000.00
6	101208	Vaid Nayan Mahavir	S R Chandak English High School	1000.00
7	101004	Agarwal Anuj	Spot registration/IMS	1000.00
8	101148	Patel Pal	Spot registration/KLE	1000.00
9	101109	Kulkarni Rutuja Amit	St. Joseph High School, Railway Lines, Solapur	37000.00
Sub Total				11000.00
Toppers List - X				
1	201038	Choudhari Arbaaz Ilyas	St. Joseph High School, Railway Lines, Solapur	7500.00
2	201043	Darak Samruddhi Omprakash	S R Chandak English High-School	5000.00
3	201004	Ambalgi Pushkaraj	Spot Registration/KLE	5000.00
3	201104	Kulkarni Harshmohan Shirish	St. Joseph High School, Railway Lines, Solapur	1000.00
4	201108	Kumbhar Mrunal Ankush	Siddheshwar Girls High-School	1000.00
5	201176	Shah Harsh Vikas	S R Chandak English High-School	1000.00
6	201025	Bhosale Sourabh Dattatraya	B F Damani High-School (Budhwar Peth)	1000.00
7	201205	Vidhate Shreyas Ravikant	B F Damani High-School (Budhwar Peth)	1000.00
8	201210	Yelegaon Aditya C.	KLE English Medium School	1000.00
9	201073	Hedgire Sakshi Jayesh	B F Damani High-School (Budhwar Peth)	34500.00
Sub Total				71500.00
Grand Total				71500.00

Nelium
Principal

Dr. Iyer V.C.

PRINCIPAL

D H.B. Soni College,
Solapur

DHB Soni College 2017-18 Final105/2B, VIAJAPUR ROAD,
VAISHNAVI NAGAR, SAIFUL,
SOLAPUR-413004**Prize Money DHB Soni Talent Search
Ledger Account**

1-Apr-2017 to 31-Mar-2018

Page 1
Credit

Date	Particulars	Vch Type	Vch No.	Debit	Credit
23-12-2017	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Mundhe Siddhant Hari	Payment	743	11,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid Biyani Purav Naresh	Payment	744	7,500.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Katara Ameya Anand	Payment	745	7,500.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Joshi Ojas Sunil	Payment	746	5,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Honrao Mahesh Shreyas	Payment	747	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to N. Saiswaroop	Payment	748	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Vaid Nayan Mahavir	Payment	749	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Aganwal Anuj Manoj.	Payment	750	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Patel Pal Dhaval	Payment	751	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Kulkarni Rutuja Amit	Payment	752	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid Choudhari Arbaaz Ilyas	Payment	753	11,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Darek Samruddhi Omprakash	Payment	754	7,500.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Ambalgi Pushkaraj Vinay	Payment	755	5,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Kulkarni Harshmohan Shirish	Payment	756	5,000.00	

Carried Over


PRINCIPAL
D.H.B. Soni College,
Solapur

65,500.00

continued ...

DHB Soni College 2017-18 Final

Prize Money DHB Soni Talent Search Ledger Account : 1-Apr-2017 to 31-Mar-2018

Date	Particulars	Vch Type	Vch No.	Debit	Credit
	Brought Forward			65,500.00	
23-12-2017	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Kumbhar Mrunal Ankush	Payment	757	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Shah Harsh Vikas	Payment	758	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Bhosale Sourabh Dattatraya	Payment	759	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Vidhate Shreyas Ravikant	Payment	760	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Yelegaon Aditya C.	Payment	761	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Nogaja Varun Nayan	Payment	762	500.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Nogaja Aishwarya Pradeop	Payment	763	300.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Holani Prerana Mukesh	Payment	764	500.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Somani Aniket Laxmikant	Payment	765	300.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Jaiswal Khushboo Dhruvchand	Payment	766	500.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Biyani Kunika Naresh	Payment	767	300.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Vaid Ankita Mahavir	Payment	768	500.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Malge Vinayak Rajshekhar	Payment	769	300.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to SWAMI MAHESH RAJKUMAR	Payment	770	500.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to KHUDE PANKAJ PRAMOD	Payment	771	300.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Dalavi Anjali Anand	Payment	772	500.00	

Carried Over

Wedyu
PRINCIPAL
 D.H.B. Soni College,
 Solapur

75,000.00

DHB Soni College 2017-18 Final

Prize Money DHB Soni Talent Search Ledger Account : 1-Apr-2017 to 31-Mar-2018

Date	Particulars	Vch Type	Vch No	Debit	Credit
	Brought Forward			75,000.00	
23-12-2017	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Attar Sumaiya Sikandar	Payment	773	300.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Shaikh Ayesha Md. Kalim Moulana	Payment	774	500.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Kale Siddheshwar Parasappa	Payment	775	300.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Gaikwad Kiran Ravindra	Payment	776	500.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to Sutar Sonali Manik	Payment	777	300.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to HATTALE BHARTI MALKAPPA	Payment	778	500.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to PATIL SUPRIYA MOHAN	Payment	779	300.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Talent Search - 2017 Pirze Amount paid to RUMANDLA SAGAR RAMSWAMI	Payment	780	300.00	
	To Central Bank of India A/c No. 3173068368current A/c Being PD Funcation 2017-18 Prize Amt. paid to DANTKALE PREETI PRAMOD	Payment	785	500.00	
27-12-2017	To Central Bank of India A/c No. 3173068368current A/c Being Best Student of the year 2017-18 for BCA Pirze Amount paid to Dalavi Anjali Anand	Payment	786	500.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Best Student of the year 2017-18 for Bsc. (ECS) Pirze Amount paid to Hattale Bharati Malkappa	Payment	787	500.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Best Student of the year 2017-18 for Sci Pirze Amount paid to Jaiswal Khushboo Dhruvchand	Payment	788	500.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Best Student of the year 2017-18 for Com. Pirze Amount paid to Nogaja Varun Nayan	Payment	789	500.00	
	To Central Bank of India A/c No. 3173068368current A/c Being Best Student of the year 2017-18 for Com. Pirze Amount paid to Nogaja Varun Nayan	Payment	790	2,100.00	
By	Closing Balance			82,600.00	82,600.00
				82,600.00	82,600.00

N. S. J. S.
PRINCIPAL
 D.H.B. Soni College,
 Solapur

दिव्य मराठी

सोलापूर, बुधवार, २२ नोव्हेंबर, १९९२



सोनी महाविद्यालयात टॅलेंट सर्चला विद्यार्थ्यांचा उत्तम प्रतिसाद

सोलापूर

देसभक्त हीरानारायण वेंकटलाल सोनी महाविद्यालय आणि दैनिक दिव्य मराठी यांच्या संयुक्त विद्यमाने सोनी महाविद्यालयात शिल्कास्तरीय टॅलेंट सर्चचे आयोजन करण्यात आले होते. या टॅलेंट सर्चला विद्यार्थ्यांचा उत्तुर्ण प्रतिसाद लाभला.

आधुनिक शिक्षण पद्धतीनुसार दहावी व बारावीच्या विद्यार्थ्यांना करिअरच्या दृष्टीने विविध स्पर्धा परीक्षांना सामोरे जावे लागते. या स्पर्धा परीक्षांची आच्छेद होण्यासाठी शहर व ग्रामीण भागातील ९ वी व १० वी च्या विद्यार्थ्यांसाठी या स्पर्धेचे आयोजन केले होते. या याचणी परीक्षेसाठी सिल्ल्यातील २५ माध्यमिक शाळांच्या विद्यार्थ्यांनी सहभाग नोंदविला. स्पर्धेचे आयोजन व्हायंट बोर्ड व्हेर, हैद्राबाद या संस्थेचे सहकार्य लाभले. परीक्षा विज्ञान, गणित व तर्कशास्त्रावर आधारित बहुपर्यायी एकूण २०० गुणांची होती. याचबरोबर पालक व शिक्षकांसाठी आनंद जोशी यांचे करिअर विषयक मार्गदर्शन झाले.

प्राचार्या डॉ. वासुती अय्यर यांनी शैक्षणिक उपक्रमानंतरल माहिती दिली. परीक्षेचा निकाल ३ डिसेंबर



रोजी जाहीर होईल. या वेळी लक्ष्मीकांत सोमण्णी, अनंद शंभारी, मधुसूदन कर्वा, जहावर जाखोडिया, अनिल विदावा, डॉ. पिरिया हरकूट, सचिन भट्ट, सतिश मालू यांच्यासह मानवर उपस्थित होते. कार्यक्रमामासाठी शिक्षकत्वर कर्मचार्यांनी परिश्रम घेतले.

N. S. J.

PRINCIPAL
D.H.B. Soni College,
Solapur



Maheshwari Vidya Pracharak Mandal, Pune's

Deshbhakt Harinarayan Bankatlal

SONI COLLEGE, SOLAPUR.

(Hindi Linguistic Minority Institute)

Affiliated to Solapur University, Solapur / Maharashtra State Board of Higher Secondary, Pune



**DHB SONI COLLEGE
TALENT SEARCH**

**a search for
ACADEMIC SCHOLARS**

CERTIFICATE

This Certificate is proudly presented to

Master/Miss _____

of _____

in recognition of his/her participation in 'DHB Soni College

Talent Search _____ held on _____

Mrs. Kavita A. Katap
Event Coordinator

Mrs. Hardeep R. Bombra
Vice Principal

Dr. Vasanti C. Iyer
Principal

In Technical
Support with

Hyderabad, Telangana

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Nesya
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D. H. B. Sori College,
Solapur.



D.H.B. Soni College, Solapur

105/2 B, Vijapur Road, Near Vaishnavi Nagar, Solapur - 413004, Maharashtra,
India

Tel: +91-217-2341366, 2301366 FAX - 2341366

E-Mail ID: sonicollege@gmail.com

Web-site: <http://www.dhbsonicollege.com>

REPORT OF DHB SONI TALENT SEARCH EXAM 2018

After an overwhelming response last year, DHB Soni College organized its 2nd Talent Search Exam on 16th Dec 2018. The exam was conducted to identify the hidden potential and nurture the talent among students of various schools across Solapur district. The exam also aimed at preparing students for various competitive exams after 12th. Looking at the great response of students last year, the decision of conducting the exam for 8th standard was taken unanimously. The exam was for conducted for the students of 8th, 9th and 10th class. It was based on the syllabus of science, math and logic reasoning. The exam was in the form of MCQ's and carried 280 marks. The syllabus was framed and the question papers were set by the team of subject experts.

Different schools all over the district were approached to inform the students about the importance of this exam. In all 1031 students from 43 schools in rural as well as city area participated in this event.

Due to increased response rate it was decided to take the exam in two slots. Morning and afternoon batch was prepared. The exam was conducted in a more strict and disciplined atmosphere. After assessment the merit list for each standard was prepared and the result of the exam was finalized by the exam committee. Attractive cash Prizes of Rs. 11000/-, Rs. 7500/- & Rs. 5000/- were awarded on the annual day function to the first three students in the merit lists of rural and urban areas for each standard. The consolation prizes were given to five students from each class. Thus the event was a grand success and received overwhelming response from students.


PRINCIPAL
D.H.B. Soni College,
Solapur

Nature & Pattern of Exam

For Std. VIII, IX & X

- Exam will be of 280 (70 x 4) marks.
- The number of questions as follows

Gen. Science : 30
Mathematics : 30
Logic & Reasoning : 10

- Exam will be in the form of MCQs with one correct choice.
- Answer sheets will be in the form of OMR sheets.
- Exam will be based on the syllabus as enclosed
- The duration of Exam will be 2 hrs.

WINNERS OF DHB SONI COLLEGE TALENT SEARCH 2017

STANDARD IX

Name	Marks	School
Mundhe Siddhant	240	St. Joseph High School
Biyani Purav	232	S R Chandak Eng. High School
Katara Ameya	232	St. Joseph High School
Joshi Ojas	228	St. Joseph High School

STANDARD X

Name	Marks	School
Chaudhari Arbaaz	268	St. Joseph High School
Darak Samruddhi	252	S R Chandak Eng. High School
Ambalgi Pushkaraj	244	KLE School
Kulkarni Harshmhohan	244	St. Joseph High School

DHB SONI COLLEGE TALENT SEARCH 2018

Particulars	Group A (Std. X Students)	Group B (Std. IX Students)	Group C (Std. VIII Students)
1st Prize	₹11000/-	₹11000/-	₹11000/-
2nd Prize	₹7500/-	₹7500/-	₹7500/-
3rd Prize	₹5000/-	₹5000/-	₹5000/-
Consolation Prize (5)	₹1000/-	₹1000/-	₹1000/-

- Participation certificate for all students.
- Trophies for all participating institutes

Result and Prize Distribution

- Result : 4th Week of December 2018
- Prize distribution will held on the annual Prize distribution ceremony of our college.

Event Head

Dr. Vasanti C. Iyer

Principal

Mrs. Hardeep R. Bombra

Vice Principal

Contact

Mrs. Katap Kavita 9890035665
Mr. Chandak Mahesh 9158966166
Mrs. Khedkar Vijayalaxmi 9325223477
Mr. Kantikar Prakash 8087420694
Mr. Bagale Arvind 9822552772

Contact

DHB Soni College,
105/2B, Vaishnavi Nagar, Saiful, Vijapur Road,
Solapur-413004

Phone Number : 0217-2341366, 2301366
Email : sonitalentsearch@gmail.com
website : www.dhbsonicollege.com

Virakshi



Maheshwari Vidya Pracharak Mandal, Pune's
Desibhakt Harinarayan Bankatlal
SONI COLLEGE, SOLAPUR
(Hindi Linguistic Minority Institute)

Proudly Presents

2nd Annual Talent Search Exam



**DHB SONI COLLEGE
TALENT SEARCH 2018**

a search for
ACADEMIC SCHOLARS

N. N. N.

PRINCIPAL
D.H.B. Soni College,

ONLINE REGISTRATION AT
www.dhbsonicollege.com



ABOUT DHB SONI COLLEGE

Deshbhakt Hariharayan Bankatal Soni College is one of the leading private educational institutes situated in the city of Solapur. It was founded by the Maheshwari Vidya Pracharak Mandal, Pune in 2006, with a mission to aspire and strive for excellence in education by developing and sharpening the intellectual and human potential of learners for the good of society and our stakeholders.

Over the past decade, the college has earned a prestigious reputation of harnessing a progressive outlook towards education by introducing career oriented courses, ICT enabled teaching facilities, outreach activities and discipline. DHB Soni College offers outstanding graduate programs in B.Sc. (Entire computer science) and BCA, each with a real world focus.

The Junior College was established in 2014 where courses are offered in Science and Commerce stream. Besides preparing students for HSC Board Examination, we also help students to prepare and go through the competitive exams such as IIT, NDA, AIEEE, BITSAT, JEE, NATA, IISAT, SAT, CET, NEET, AIIMS, AFMC, CA, CS-Foundation and Tally courses.

COURSES OFFERED

Junior College

- Science : Regular / Elite - Preparation for JEE / NEET (Limited Seats)
- Commerce : Regular / Aspire - C.A. / C.S. Foundation / Management Entrance Preparation (Limited Seats)

Senior College

B.C.A & B.Sc. (Ecs.)
Foundation Course for Stud

2nd Annual Talent Search Exam



DHB SONI COLLEGE
TALENT SEARCH 2018

ACADEMIC SCHOLARS

Eligibility Criteria

Group A : Standard X
Group B : Standard IX
Group C : Standard VIII

Registration Fee

Rs. 50/- per Student (Non Refundable)

Exam Details

- Date of Exam : 16th December 2018
- Last Date of Registration : 8th December 2018
- Exam Center : DHB Soni College, Solapur
- Duration : 2 hrs
- Time : Between 8.30am to 6 pm - Batch wise
- Medium of Exam : English and Marathi
- Prize distribution will held on the annual Prize distribution ceremony of our collage.

In Technical Support with



WHY TALENT SEARCH

We, at DHB Soni College, Solapur are taking this initiative to bring in limelight the hidden talent and the academic scholars of Solapur district.

OBJECTIVES OF THIS TALENT SEARCH

- To test students' analytical skills in advance which they will require in future while taking competitive exams like CET, CAT, JEE, NEET, CA, CS Foundation, etc.
- To help the students to recognize their knowledge, aptitude and skills in particular subject area (science and maths).
- To provide students a platform where they can showcase their natural abilities.
- To offer guidance to the gifted students and help them to further hone their true potential.

Rules and Regulations

- Registration of students through Institutes as well as at individual level.
- It is compulsory for the students to carry ID card from the respective institutes & essential writing material (HB Pencil)
- The board of examiners decision regarding syllabus, paper pattern and result will be final and binding to all.
- Students should report half an hour before their respective batches.
- Students are not allowed to use calculator and phones.
- Students will be disqualified if found malpracticing.
- **For Upcountry Students** (Outside Solapur city)
 - Upcountry students will be paid travel allowances (to and fro - Actual S.T. fare).
 - The reimbursement is limited to maximum 5 students of each group (Maximum 15 students) along with one faculty from every institute.
 - In case registration from any upcountry institute exceeds 5 (Maximum 15 students) remaining students have to bear cost of travel on their own.



Maheshwari Vidya Pracharak Mandal, Pune's
**Deshbhakt Harinarayan Bankatlal
SONI COLLEGE,
SOLAPUR**
(Hindi Linguistic Minority Institute)

Udise No. : 27301300503
Index No. J 24.09.104

105 / 2B, Saiful, Vijapur Road, Solapur - 413 008.
Phone : 0217 - 2341366, 2301366
E - mail : sonicollege@gmail.com • Website : www.dhbsonicollege.com

To,
The Headmaster/Headmistress

Sub :- Invitation to Participate in **"DHB SONI COLLEGE TALENT SEARCH -2018"**
-a search for **ACADEMIC SCHOLARS** on **Sunday 16th December 2018**

Sir /Madam,

We are pleased to announce that DHB Soni College, Solapur proudly presents its second DHB SONI COLLEGE TALENT SEARCH 2018- a search for ACADEMIC SCHOLARS in technical support with Whiteboard Pvt. Ltd. Ventures, Hyderabad, Telangana on **Sunday 16th December 2018**.

This is a talent search program at district level created with the objective of recognizing and acknowledging academically talented students from Std. VIII, IX and X. The exam is designed in a manner to test their analytical skills in advance which they will require in future while taking competitive test like CET, CAT, JEE, NEET, CA FOUNDATION etc.

"DHB SONI COLLEGE TALENT SEARCH -2018" - a search for ACADEMIC SCHOLARS comprises objective type questions from Maths, Science, Logic & Reasoning. The exam will be of 280 marks in total carrying 70 MCQ questions. OMR sheets will be provided for marking answers. The exam is scheduled on **16th December 2018** in college premises between **8.30 a.m. to 6 p.m.** batch wise.

We also wish to inform you that above initiative is done with no profit motive and the fee charged for above test to students is very nominal and affordable.

We are overwhelmed by the participants' huge response received last year. Along with **offline** registration form, this year we are taking this exam to next level by introducing **online registration** facility on college website **"www.dhbsonicollege.com"**. We would highly appreciate your kind co - operation in encouraging the students to participate in the **"DHB SONI COLLEGE TALENT SEARCH -2018"** - a search for ACADEMIC SCHOLARS in large numbers. The details of the exam are enclosed for your perusal. **Please fill in and send the registration form attached herewith before 8th December 2018.** Looking forward for your positive participation .

Best regards.

Encl. :-

1. Information leaflet
2. Registration Form
3. Poster
4. Syllabus & Sample questions
5. Sample OMR Sheet

Vasanti Iyer

Yours Sincerely,

Vasanti Iyer

Dr. Vasanti Iyer

Principal

PRINCIPAL

O H.B. Soni College.

Solapur



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SAMPLE QUESTION PAPER WITH SYLLABUS

Std : VIII / IX / X	Time : 2 hrs .
Marks : 280	Date : 16 th Dec 2018
Name of the School :	Roll No :

Instruction :

- The question paper consists of three sections.
(General Science 30 Ques. , Maths – 30 Ques. , Logic & Reasoning – 10 Ques.)
- All Questions are multiple choice questions with one single correct answer. Each correct answer carries 4 marks.
- No negative marks.
- Calculators are not allowed.
- Separate page is provided for rough work.

General science :

1. Mark the correct statement
a. Displacement = Distance
b. Displacement \leq Distance
c. Displacement < Distance
d. Displacement \neq Distance
2. The force of attraction between the molecules of water is called:
a. adhesion b. cohesion c. attraction d. absorption
3. The kelvin temperature for 3730C is:
a. 273K b. 298K c. 646K d. 479K

Maths

1. The simplest form of $\sqrt{\frac{98}{2}}$ is _____
a. $\sqrt{2}$ b. $\sqrt{98}$ c. 7 d. $\sqrt{7}$
2. If $x + 4$ is a factor of the polynomial $x^2 + 3x + m$ the value of 'm' is _____
a. 4 b. -4 c. 3 d. -3
3. Degree of the polynomial is _____ $\sqrt{4}$
a. $\frac{1}{2}$ b. 1 c. 0 d. Does not exist

Logic & Reasoning

1. 21 : 3 :: 574 : ?
a) 23 b) 82 c) 97 d) 113
2. Which letter is seventh to the right of the thirteenth letter from the left end ?
a) S b) T c) U d) V
3. How many combinations of two – digit numbers having 8 can be made from the following numbers ?
8, 5, 2, 1, 7, 6
a) 9 b) 10 c) 11 d) 12


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**D.H.B. SONI COLLEGE , SOLAPUR
TALENT SEARCH EXAM. SYLLABUS 2018 -19**

STD	Subject	STATE BOARD	NCERT
VIII	Science	a) Living World & Classification of microbes	a) Microorganisms - friend & foe
		b) Cell & Cell Organelles	b) Cell structure & Function
		c) Metal & Non Metals	c) Materials-Metal & Non Metals
		d) Force & Pressure	d) Force & Pressure
		e) Pollution	e) Pollution of Air & Water
	Maths	a) Rational & Irrational Numbers	a) Rational Numbers
		b) Indices & Cube root	b) Exponents & powers; Cube & Cube roots
		c) Equations in one variable	c) Equations in one variable
		d) Quadrilateral : types	d) Understanding quadrilaterals
		e) Factorisation of Algebraic Expressions	e) Algebraic expressions & Identities
IX	Science	a) Law of Motion	a) Force & Laws of Motion
		b) Work & Energy	b) Work & Energy
		c) Measurement of Matter	c) Nature of Matter
		d) Acid Bases & Salts	d) Acid Bases & Salts
		e) Classification of Plants	e) Diversity in Living Organisms
		f) Useful & Harmful Micro	f) Why do we fall ill
	Maths	a) Real Numbers	a) Number System
		b) Polynomials	b) Polynomials
		c) Linear equations in two variables	c) Linear equations in two variables
		d) Parallel Lines	d) Lines & Angles
		e) Triangles	e) Triangles
		f) Quadrilaterals	f) Quadrilaterals
X	Science	a) Effects of Electric Current	a) Electricity
		b) Periodic Classification of Elements	b) Periodic Classification of Elements
		c) Chemical Reaction & Equation	c) Chemical Reaction & Equation
		d) Heredity & Evolution	d) Heredity & Evolution
		e) Life processes in Living Organisms -II	e) How do organisms reproduce ?
		f) Environmental Management	f) Our Environment
	Maths	a) Linear equations in two variables	a) Pair of Linear equations in two variables
		b) Quadratic Equations	b) Quadratic equations
		c) Arithmetic Progression	c) Arithmetic progression
		d) Similarity	d) Triangles
		e) Circle	e) Circle
		f) Co- ordinate Geometry	f) Co- ordinate Geometry

M. D. S.

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DHB SONI COLLEGE TALENT SEARCH -2018
A Search for Academic Scholars
OMR ANSWER SHEET

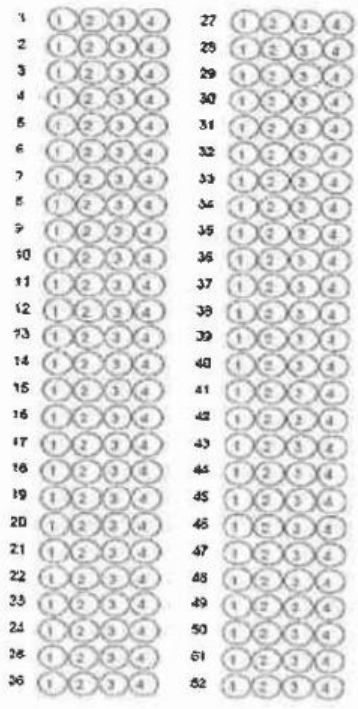
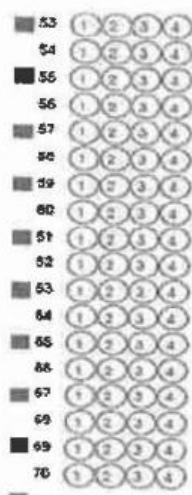


Name of the student:-	
Name of the school:-	
Std:-	Batch:-
Roll No:-	
Roll No. (in words):-	

Candidate's Sign
Invigilator's Sign

6 Digit Code number

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Principal
PRINCIPAL
 D.H.B. Soni College,
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D.H.B. SONI COLLEGE , SOLAPUR
DHB SONI COLLEGE TALENT SEARCH -2018
A Search for Academic Scholars



Registration Form for Std -VIII / IX / X

1. Name of the School : _____
2. Complete Address : _____
3. Std. : _____ Taluka : _____ Dist : _____
E-mail : _____ Phone No : _____
4. Medium (English/Marathi) : _____
5. Contact Person / Faculty Incharge : _____
6. Contact / Mobile No. : _____

Sr.	Name of the Student	Contact Number
1		
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DHB SONI COLLEGE TALENT SEARCH - 2018

A SEARCH FOR ACADEMIC SCHOLARS

Date : 16/12/2018

Question Booklet

Seat No :

Batch - I

Standard - IX

Max. Marks : 280

Instructions for Candidates

1. Please write your Exam . Seat No . Clearly Exam Seat No. is **6 digit code number** .
2. All Questions are Compulsory .
3. This Question paper has 3 sections consisting of total 70 questions.
Section I : Mathematics : Q. 01 to Q.30
Section II : Science : Q.31 to Q.60
Section III : Logic & Reasoning : Q.61 to Q.70
4. Each Question has four options from which one option is correct
correct method
5. **Darken** the circles for correct answer in the provided **OMR Sheet** .
6. Each Question carries **4 Marks** .
7. Use only dark **HB Pencil /Pen** .
8. There is **no negative marking** for incorrect answers .
9. **Rough work** is to be done at the end of the booklet .
10. College decision is **final & binding** in regard to any conflicts .
11. All disputes are subject to Solapur jurisdiction .

16/12/2018
105/2B, Saiful Vijapur Road,
Solapur

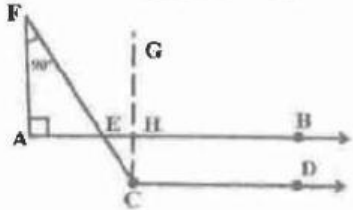

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$-3\sqrt{2}$
 $2\sqrt{3}$
 ns

as old as you will be". The sum of present ages of Ravish and Aarushi is

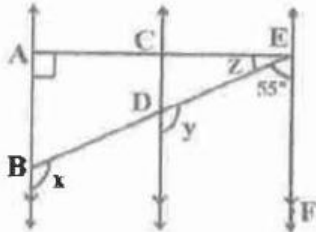
1. 42
2. 54
3. 48
4. 12

16. In the figure, $AB \parallel CD$ and $\angle F = 30^\circ$ then $\angle ECD =$ _____



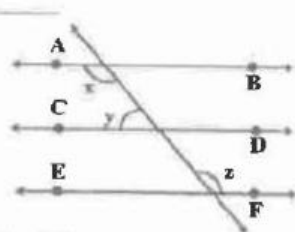
1. 30°
2. 60°
3. 90°
4. 120°

17. In the figure, $AB \parallel CD$ and $CD \parallel EF$. Also $EA \perp AB$. If $\angle BEF = 55^\circ$, then identify the correct statement.



1. $x = y$
2. $x = z$
3. $y = z$
4. $x = y = z$

18. In figure, if $AB \parallel CD$, $CD \parallel EF$ and $y : z = 3 : 7$ then the value of x is

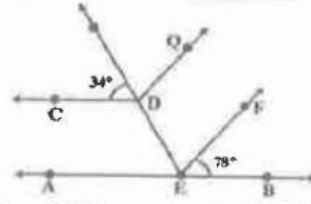


1. 54°
2. 126°
3. 18°
4. Data insufficient

19. Two lines AB and CD intersect at O. If $\angle AOC + \angle COB + \angle BOD = 270^\circ$ then the values of $\angle AOC$, $\angle COB$, $\angle BOD$ and $\angle DOA$ respectively are _____

1. $30^\circ, 60^\circ, 50^\circ, 40^\circ$
2. $30^\circ, 30^\circ, 60^\circ, 60^\circ$
3. $90^\circ, 90^\circ, 90^\circ, 90^\circ$
4. Can't be determined

20. In the figure, $AB \parallel CD$ and $EF \parallel DQ$, then $\angle AED =$ _____



1. $\angle PDQ$
2. $2\angle DEF$
3. $\frac{1}{2}\angle DEF$
4. $2\angle PDQ$

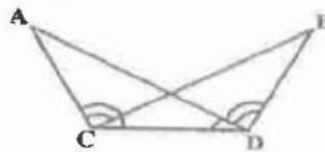
21. In a triangle XYZ, $\angle X = 62^\circ$, YO and ZO are bisectors of $\angle XYZ$ and $\angle XZY$ respectively. $\angle YOZ =$ _____

1. 90°
2. 31°
3. 121°
4. 32°

22. In a trapezium ABCD, $AB \parallel CD$, and $AD = BC$. If P, Q, R and S are the midpoints of BA, BD, CD and CA respectively then what type of quadrilateral do you get after joining P, Q, R and S

1. trapezium
2. rhombus
3. rectangle
4. kite

23. In the figure, $\angle BCD = \angle ADC$ and $\angle ACB = \angle BDA$. Name the criterion basing on which, $\triangle ACD \cong \triangle BDC$



1. AAA
2. RHS
3. ASA
4. SSS

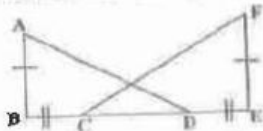


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24. $\triangle ABC \cong \triangle PQR$, If $\triangle ABC$ is not congruent to $\triangle PQR$, then which of the following is not true?

1. $BC = PQ$
2. $AC = PR$
3. $AB = PQ$
4. $QR = BC$

25. In the given figure, $AB \perp BE$ and $EF \perp BE$. If $BC = DE$ and $AB = EF$, then $\triangle ABD$ is congruent to _____



1. $\triangle EFC$
2. $\triangle ECF$
3. $\triangle CEF$
4. $\triangle FEC$

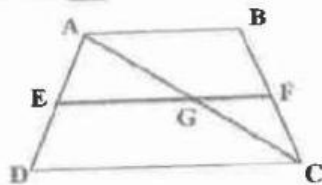
26. In a quadrilateral $ABCD$, CO and DO are the bisectors of $\angle C$ and $\angle D$ respectively then $\angle COD =$ _____

1. $\angle A + \angle B$
2. $2(\angle A + \angle B)$
3. $\frac{1}{2}(\angle A + \angle B)$
4. $\angle A - \angle D$

27. The angles of a parallelogram if one angle is 24° less than twice the smallest angle _____

1. $68^\circ, 112^\circ, 68^\circ, 112^\circ$
2. $108^\circ, 72^\circ, 108^\circ, 72^\circ$
3. $37^\circ, 143^\circ, 37^\circ, 143^\circ$
4. none of these

28. $ABCD$ is a trapezium, in which side AB is parallel to side DC and E is the midpoint of side AD . If F is a point on the side BC such that the segment EF is parallel to side DC then $EF =$ _____



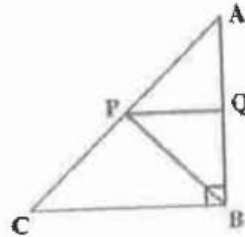
1. $AB + DC$
2. $\frac{1}{2}(AB + DC)$
3. $AB - DC$
4. $2(AB - DC)$

29. If $ABCD$ is a rhombus with

$\angle ABC = 56^\circ$ then $\angle ACD =$ _____

1. 28°
2. 56°
3. 62°
4. 90°

30. ABC is a right angled triangle and P is the midpoint of AC . $PQ \perp AB$. Then identify the correct statement



1. Q is the midpoint of AB
2. $PB = PA = \frac{1}{2}AC$
3. Both 1 and 2
4. Neither 1 nor 2

Section II : Science

31. The correct form of Newton's second law is

1. $F = \frac{\Delta p}{\Delta t}$
2. $F = m \frac{\Delta V}{\Delta t}$
3. $F = V \frac{\Delta m}{\Delta t}$
4. $F = mv$

32. The linear momentum of a ball of mass $50g$ is 0.5 kg ms^{-1} . The velocity of the ball is

1. 50 ms^{-1}
2. 10 ms^{-1}
3. 0.5 ms^{-1}
4. zero

33. When a bus starts suddenly the passengers receive a backward jerk. It is due to

1. Inertia of direction
2. Inertia of motion
3. Inertia of rest
4. Can't say any thing



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34. Two balls A and B of masses 'm' and '2m' are in motion with velocities $2v$ and v respectively. Compare their ratio of inertia and force needed to stop them
- * 1. 2:1 & 1:1
 2. 1:1 & 1:1
 3. 1:4 & 2:1
 4. 1:2 & 1:1
35. A helicopter of mass 1200kg is on the helipad. It's momentum is ($g = 10\text{ms}^{-2}$)
1. 0
 2. 12000
 3. 120
 4. 12
36. A flying aeroplane consists of
1. Only potential energy
 2. Potential, kinetic energies
 3. Only kinetic energy
 4. Neither potential nor kinetic
37. The relation between S.I, C.G.S units of work is
1. $1\text{N} = 10^7 \text{ dyne}$
 2. $1\text{J} = 10^{-7} \text{ erg}$
 3. $1\text{J} = 10^7 \text{ erg}$
 4. $1\text{J} = 10^2 \text{ erg}$
38. The relation between commercial unit of power and S.I. unit of work is
1. $1\text{Kwh} = 1000\text{W}$
 2. $1\text{Kwh} = 3600\text{W}$
 3. $1\text{Kwh} = 746\text{W}$
 4. $1\text{Kwh} = 3.6 \times 10^6 \text{ J}$
39. The energy possessed by an object of mass 10kg when it is at a height of 6m above the ground ($g = 9.8 \text{ m/s}^2$)
1. 588 J
 2. 100 J
 3. 600 J
 4. 98 J
40. The mass of a body if it is moving with a velocity of 20m/s and has kinetic energy 100J is
1. 5.00 kg
 2. 0.5 kg
 3. 5 kg
 4. 50kg
41. 6.02×10^{24} molecules represents
1. 1 mole
 2. 2 mole
 3. 10 moles
 4. 0.1 mole
42. The weight of 6.023×10^{23} molecules of carbon monoxide is
1. 25 gm
 2. 26 gm
 3. 27 gm
 4. 28 gm
43. 16 grams of a gas at STP occupies 11.2 litre. The molecular weight of the gas is
1. 23
 2. 25
 3. 30
 4. 32
44. The phosphate of a metal has the formula MPO_4 . The formula of its nitrate will be:
1. MNO_3
 2. $\text{M}(\text{NO}_3)_2$
 3. $\text{M}(\text{NO}_3)_2$
 4. $\text{M}(\text{NO}_3)_3$
45. Which of the following is not the correct formula:
1. H_2S
 2. NaHSO_4
 3. SiO_2
 4. NaSiO_3
46. On electrolysis of brine solution, the products formed are:
1. Sodium and chlorine
 2. Hydrogen, chlorine and oxygen
 3. Hydrogen, chlorine and sodium hydroxide
 4. Sodium hydroxide, chlorine and oxygen
47. Which one of the following is the salt of a binary acid?
1. Calcium sulphate
 2. Magnesium bromide
 3. Zinc phosphate
 4. Sodium carbonate
48. 'Alum' is an example of:
1. Single salt
 2. Double salt
 3. Acids
 4. None of these
49. Identify the salts whose aqueous solution has the highest pH at the same temperature.
1. NaCl
 2. $(\text{NH}_4)_2\text{SO}_4$
 3. $\text{CH}_3\text{COONH}_4$
 4. K_2CO_3
50. Identify the acidic salt which can react with one mole of base mono acidic among the following:
1. $(\text{NH}_4)_2\text{CO}_3$
 2. Na_2HPO_3
 3. NaH_2PO_3
 4. CH_3COOK



51. Read the following statements

- a. Exoskeleton of scales, egg laying outside water- Feature of Reptilia
 - b. Exoskeleton of scales, endoskeleton of bones breathing through gills - features of Pisces
1. a correct, b in correct
 2. b correct, a incorrect
 3. Both a, b incorrect
 4. Both a, b correct

52. Nikitha not accepting that whale is not a fish but a mammal, but Sirisha convinced her on this basis

1. Whale is viviparous
2. Its skin covered by hair
3. Feed babies with milk
4. All of the above

53. Choose the option that best describes the feature of spirogyra.

1. multicellular, autotrophic, root like rhizoids
2. cytoplasmic strands, autotrophic, presence of rhizome
3. presence of male cones, nonvascular, filaments
4. filamentous, presence of cytoplasmic strands, presence of pyrenoids

54. Coral are

1. Poriferans attached to some solid support
2. Cnidarians that are solitary living
3. Poriferans present at the sea bed
4. Cnidarians that live in colonies

55. In which group of animals, coelom is filled with blood?

1. Arthropoda
2. Annelida
3. Nematoda
4. Echinodermata

56. Congenital diseases are those which

1. are deficiency diseases
2. are present from time of birth
3. are spread from man to man
4. occur during life time

57. Hemophilia is

1. acute disease
2. deficiency disease
3. chronic disease
4. congenital disease

58. Which of the following is incorrect about tuberculosis?

1. it is caused by salmonella
2. it commonly affects lungs
3. bacterial release tuberculin toxin
4. patient's sputum contains blood

59. Ascaris lumbricoides is common roundworm of

1. Liver
2. bile duct
3. large intestine
4. small intestine

60. Making anti-viral drugs is more difficult than making anti-bacterial medicines because

1. virus makes use of host-machinery
2. viruses are on the border line of living and non-living
3. viruses have very few biochemical mechanism of their own
4. viruses have a protein coat

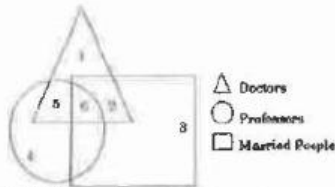


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Section III : Logic & Reasoning

61. Find out the wrong term in the following:
325, 259, 202, 160, 127, 105, 94
1. 94 2. 127
3. 202 4. 259
62. Find out the missing term:
AI, BJ, CK, ?
1. DL 2. DM
3. GH 4. LM
63. Chef is related to Restaurant in the same way as Druggist is related to _____?
1. Medicine 2. Pharmacy
3. Store 4. chemist
64. Choose out the odd one
1. Potassium 2. Silicon
3. Gallium 4. Germanium
65. If FISH is written as EHRG in a certain code, how would JUNGLE be written in that code?
1. ITMFKD 2. ITNFKD
3. KVOHMF 4. TIMFKD
66. A man is facing south. He turns 135° in the anti clockwise direction and then 180° in the clockwise direction. Which direction is he facing now?
1. North-east
2. North-west
3. South-east
4. South-west
- 67.



Which number indicates doctors who are not married?

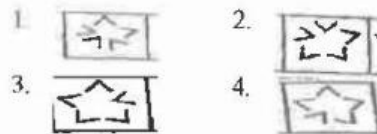
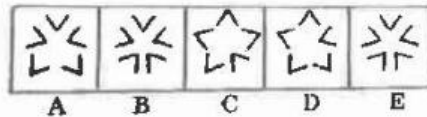
1. 6 2. 1
3. 4 4. 2

68. If '<' means 'minus', '>' means 'plus', '=' means 'multiplied by' and '\$' means 'divided by', then what would be the value of
 $27 > 81 \$ 9 < 6?$
1. 6 2. 33
3. 54 4. none of these

69. Assertion (A): A ship rises as it enters the sea from a river
Reason (R): The density of sea water is higher as compared to river water.
1. If both A and R are true and R is the correct explanation of A
2. If both A and R are true but R is not the correct explanation of A
3. If A is false but R is true
4. If both A and R are false

70. The following question consists of five figures marked A, B, C, D and E called the problem figures which are followed by four other figures marked 1, 2, 3 and 4 called the Answer figures. Select a figure from amongst the answer figures which will continue the same series as established by the five problem figures.

PROBLEM FIGURES



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Rough Work



Nesya
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Setapur



D.H.B. SONI COLLEGE, SOLAPUR
DHB SONI COLLEGE TALENT SEARCH – 2018
A Search for Academic Scholars

Date : 16/12/2018

Question Booklet

Seat No :

Batch – I

Standard – VIII

Max. Marks : 280

Instructions for Candidates

1. Please write your **Exam. Seat No. clearly**. Exam. Seat No. is **06 digit code number**. Make sure that no block is left unfilled.
2. **All Questions are Compulsory.**
3. This Question paper has **3 sections** consisting of **total 70 Questions**.
Section I : Maths : Q. 1 to Q. 30
Section II : Science : Q. 31 to Q. 60
Section III : Logic & Reasoning : Q. 61 to Q. 70
4. Each Question has **four options**, from which one option is correct.
Correct Method
5. You have to darken the circles for correct answer in the provided **OMR sheet**.
6. Each Question carries **4 marks**.
7. Use only **Dark HB Pencil / Pen**.
8. There is **no negative marking** for incorrect answers.
9. **Rough work** is to be done at the end of the booklet.
10. **College decision is final & binding** in regard to any conflicts.
11. All disputes are subject to Solapur jurisdiction.


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Section I : Maths

- Cube of a number ending in 7 will have _____ as its units digits
 - 1
 - 2
 - 3
 - 8
- If one side of a cube is 15 m in length, then the volume of the cube is _____
 - 3753
 - 3375
 - 7533
 - 5733
- One is subtracted from Ramanujan's number, the cube root of resultant difference is _____
 - A multiple of 6
 - A prime number
 - A factor of 100
 - Three
- $\sqrt[3]{4 \frac{12}{125}} \div \sqrt[3]{0.000064} =$
 - 400
 - 0.4
 - 0.04
 - 40
- $\sqrt[3]{262144}$ is _____
 - A perfect square
 - A perfect cube
 - A two digit number
 - All the above
- Divide Rs. 80 among three people so that the second will get twice as much as the first, and the third will get Rs.5 less than the second. The least amount goes to _____.
 - First person
 - Second person
 - Third person
 - Each gets same amount
- The value of 'x' in $\frac{4}{x-2} = \frac{9}{x+8}$ is _____.
 - 0
 - 2
 - 10
 - 1
- The average of 35, 45 and x is equal to five more than twice x. Then x = _____
 - 13
 - 31
 - 65
 - 93
- A rectangular garden has length of x + 2 and width of x + 1 and an area of 42sq cm. The perimeter of garden is _____
 - 26cm
 - 62cm
 - 13cm
 - 31cm
- Two numbers are such that one number is 42 more than the second number and their average is equal to 40. The two numbers are _____
 - Prime numbers
 - A prime and a composite
 - Two composite numbers
 - None of these
- $8^{2/3} + 25^{2/3} - \left(\frac{1}{27}\right)^{-2/3} =$ _____
 - A multiple of 6
 - A perfect cube
 - A multiple of 4
 - A multiple of 7
- If $a^2 = 0.0049$, then $a^3 =$ _____
 - 0.343
 - 0.0343
 - 0.00343
 - 0.000343
- If $2^n = 64$, the value of 2^{n+2}
 - 4^{n+2}
 - 2^5
 - 4^4
 - 2^{-5}
- If $\sqrt{3^n} = 2187$, then the value of $\sqrt[3]{3^{n+1}} =$ _____
 - A perfect cube
 - A perfect square
 - A multiple of perfect cube
 - All the above
- The value of $\{a^2 - b^4\}^{-2}$ for a = -2 and b = -1 is _____
 - 125
 - 125
 - $\frac{1}{125}$
 - $-\frac{1}{125}$



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16. The value of $\left(\frac{3}{2}\right)^4 - \left(\frac{3}{4}\right)^4 =$ _____

1. $\frac{1215}{256}$ 2. $\frac{1215}{256}$
3. $\frac{256}{1215}$ 4. $\frac{256}{1215}$

17. The value of $(2.5)^3 - (1.5)^3 =$ _____

1. 14.25 2. -14
3. 12.25 4. -8

18. $a^2 + 3b - 3a - ab =$

1. $(a+3)(a-b)$
2. $(a+3)(a+b)$
3. $(a-3)(a-b)$
4. $(a-3)(a+b)$

19. $(x+y+z)(x-y-z) =$

1. $x^2 + y^2 + z^2 - 2xy + 2yz - 2zx$
2. $x^2 + y^2 + z^2 + 2xy + 2yz - 2zx$
3. $x^2 - y^2 - z^2 - 2yz$
4. $x^2 + y^2 + z^2 - 2xy + 2yz + 2zx$

20. $12xy(9x^2 - 16y^2) + 4xy(3x + 4y) =$

1. $6x - 8y$
2. $3(3x - 4y)$
3. $2(3x - 4y)$
4. $9x + 12y$

21. Which of the following is not true for a parallelogram?

1. Opposite sides are equal
2. Opposite angles are equal
3. Opposite angles are bisected by diagonals
4. Diagonals bisect each other

22. Among the following, a quadrilateral with opposite sides unequal, and diagonals unequal

1. Rhombus 2. Kite
3. Rectangle 4. Parallelogram

23. In which of the following quadrilateral, the diagonals do not intersect at 90°

1. Square 2. Rhombus
3. Kite 4. Parallelogram

24. A quadrilateral with two pairs of equal adjacent sides is _____

1. Rectangle 2. Trapezium
3. Parallelogram 4. Kite

25. The number of measurements required to construct a quadrilateral is _____

1. A prime number
2. A least composite number
3. A composite number
4. A factor of 16

26. Between any two rational numbers there exists _____ rational numbers.

1. Finite 2. Infinite
3. two 4. one

27. We can represent _____ numbers on the number line.

1. Rational
2. Irrational
3. Both A and B
4. Non-terminating non-repeating

28. The square root of a perfect square is

1. Not a rational number
2. Not an integer
3. A rational number
4. Both 1 and 2

29. Among the following that is not a rational number

1. e
2. $-\left[\sqrt{\frac{2}{9}}\right]$
3. 0.142857142857...
4. All the above



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30. Rational number that does not lies between 2 and 3 is _____

1. $\sqrt{5}$
2. $\sqrt{9}$
3. $\sqrt{7}$
4. $2\sqrt{2}$

Section II : Science

31. The relation between SI and C.G.S unit of force is _____

1. $1\text{N} = 10^{-3}$ dyne
2. $1\text{N} = 10$ dyne
3. $1\text{N} = 10^5$ dyne
4. $1\text{N} = 100$ dyne

32. The examples of contact forces are

1. Muscular force, electrostatic force
2. Magnetic force, muscular force
3. Tension, gravitational force
4. Frictional force, tension

33. The pressure is measured in

1. dyne/cm²
2. N/m²
3. Pascal
4. All the above

34. Gravitational force on an object is termed as

1. Mass
2. Weight
3. Pressure
4. Force

35. The device used to measure liquid pressure is

1. Manometer
2. Ammeter
3. Motometer
4. Nanometer

36. A force of 25N acts on a body of area of cross section 100m². The pressure is

1. $\frac{1}{4}$ N/m²
2. 0.25 N/m²
3. Both 1 and 2
4. 4 N/m²

37. Atmospheric pressure is

1. Pressure that the atmosphere exerts
2. The area that force exerts
3. Force per unit area
4. None of these

38. The physical quantity which changes or tries to change the position of an object is

1. Area
2. Force
3. Momentum
4. Pressure

39. A force of 1200N acts on a surface area. Find the thrust & surface area in cm² if pressure is 1.2×10^6

1. 120N, 0.1 cm²
2. 12000 N, 10cm²
3. 1200N, 10cm²
4. 10N, 1200cm²

40. Liquid pressure

1. Increases with depth
2. Decreases with depth
3. Depends on the density of the liquid
4. Both 1 and 3

41. Richa took some blue vitriol and dissolved it into water now, she placed a strip of zinc metal into the solution and leaves it for some time. After some time, she observed that

- I. zinc strip slowly loses its weight
- II. copper settles at the bottom of the beaker

III. blue colour of the solution becomes fade

The correct observations (s) is/are

1. I and II
2. I and III
3. Only III
4. I, II and III

42. Consider the following statements

- I. Metal X can displace Y from its salt solution but not hydrogen from water or dilute acid
- II. metals Z and A both release hydrogen with dilute acids
- III. Metal Z releases hydrogen with nitric acid but metal A does not
- IV. Metal A is not able to displace metal Z from its salt solution



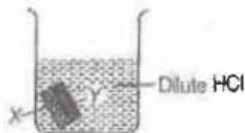
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On the basis of above observations, the order of reactivity of these metals is

1. $Z > A > X > Y$
2. $A > Z > X > Y$
3. $Z > A > Y > X$
4. $A > Z > Y > X$

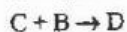
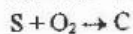
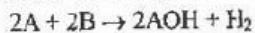
43. Sherya formed assembly of two metals by using different pairs of metals and fastening them together. Then he immersed it in dilute hydrochloric acid



What should be X and Y so that after 5 min, the beaker contains the least amount of zinc ions?

1. Magnesium and zinc
 2. Lead and zinc
 3. Iron and zinc
 4. Silver and zinc
44. The correct order of increasing chemical reactivity is
1. $Zn < Fe < Mg < K$
 2. $Fe < Mg < Zn < K$
 3. $Fe < Mg < K < Zn$
 4. $Fe < Zn < Mg < K$

45. Study the following equations and mark the correct option



	A	B	C	D
1.	Na	H ₂ O	SO ₂	H ₂ SO ₃
2.	Na	H ₂ O	SO ₂	H ₂ SO ₄
3.	K	H ₂ O	SO ₂	H ₂ SO ₄
4.	K	H ₂ O	SO ₃	H ₂ SO ₃

46. An unknown metal X when placed in copper sulphate solution gives a red brown precipitate, when placed in magnesium sulphate solution gives no reaction. Identify element x.

1. Sodium
2. Potassium
3. Calcium
4. Iron

47. In the process of welding metals like stainless steel and aluminum,

- I. Oxy acetylene flame is used
- II. Liquid helium is used
- III. Liquid oxygen is used
- IV. Liquid nitrogen is used

The correct statements (s) is/are

1. I and III
2. Only II
3. II, III and IV
4. None of these

48. Tungsten is used in electric bulbs because

1. it is sonorous
2. it has high melting point
3. it has tensile strength
4. it has high density

49. Part 'X' is present in a plant cell. It is absent in most of the animal cells. Some animal cells have it, but they are much smaller than those present in plant cell. What is 'X'?

1. Plastids
2. Vacuole
3. Nucleus
4. Mitochondria

50. Cells make up A; A make B; B make up C; and C make up an organism. What is A, B, C?

1. Organ, tissue, organ system
2. Tissue, organ system, organ
3. Tissues, organs, organ system
4. Organ system, tissues, organs



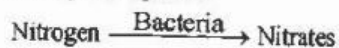
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51. I am an animal cell that needs to travel fast from one part to another in an organism. I am able to travel through small spaces quickly because I do not have a nucleus. My function is to distribute a gas. Which cell am I?

1. Nerve cell
2. White blood cell
3. Red blood cell
4. Egg cell

52. Observe and identify the process shown by the equation



1. Nitrification
2. Nitrogen fixation
3. Decomposition
4. Denitrification

53. There are two pits A and B in the garden. In pit A Ria put a polythene bag in the garden with some fruit peels. In pit B she dumped the same kind of waste but without packing it in a polythene bag. She then covered both the pits with soil. What is her observation after a month?

1. Fruit peels in pit A degraded faster than that of pit B
2. Fruit peels in pit B degraded faster than that of pit A
3. Waste in both the pits degraded almost equally
4. Waste in both the pits did not degrade at all

54. Milk, if left out of the refrigerator will go sour. Which of the following is incorrect regarding this?

- A. Viruses cause milk to go sour faster
- B. As milk goes sour, it becomes more acidic
- C. The higher the temperature, the faster the milk will go sour

D. Bacterial action causes the milk to go sour

E. Milk is converted into acetic acid

Choose the correct option?

1. A and B
2. B and D
3. A and E
4. C and D

55. Microorganisms can be unicellular or multicellular. Some of their examples are given below. Select the correct categorization of unicellular and multicellular microorganisms.

Unicellular	Multicellular
1. Diatoms and chlamydomonas	Volvox and penicillium
2. Diatoms	Cyanobacteria and chlamydomonas
3. Cyanobacteria	Diatoms and Chlamydomonas
4. Chlamydomonas	Diatoms and Volvox

56. The Kyoto protocol is associated with one of the following. This one is

1. Reduction in the emission of greenhouse gases
2. Reduction in the use of chlorofluorocarbons
3. Reduction in the cutting of forest trees
4. Reduction in pollution of fresh water sources

57. Biochemical Oxygen Demand (BOD) in river water:

1. Increase when sewage gets mixed with river water
2. Remains unchanged when algal bloom occurs
3. Has no relationship with concentration of oxygen in the water
4. None of the above



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58. Which one of the following statements is wrong in case of Bhopal, (India) tragedy?

1. It took place in the night of December 2/3/1984
2. Methyl Isocyanate gas leakage took place
3. Thousands of human beings died
4. Radioactive fallout engulfed Bhopal

59. Escherichia coli used as an indicator organism to determine pollution of water with

1. Industrial effluents
2. Heavy metals
3. Pollen of aquatic plants
4. Faecal matter

60. How a virus establishes itself in an animal?

1. By killing the animal cells and replacing them with its own genetic material
2. By invading the animal cells and replicating the cell's genetic material
3. By creating new animal cells
4. By invading the animal cells and replicating its own genetic material

Section III : Logic & Reasoning

61. Find out the wrong term in the following:

- 196, 169, 144, 121, 101
1. 101
 2. 121
 3. 169
 4. 196

62. Find out the missing term(s):

- A, B, B, D, C, F, D, H, E, ?, ?
1. E, F
 2. F, G
 3. F, I
 4. J, F

63. Part is related to Whole in the same way as Arc is related to?

1. Trapezium
2. Circle
3. Triangle
4. Square

64. Choose out the odd one

1. Curd
2. Butter
3. Oil
4. cream

65. If in a certain code, LUTE is written as MUTE and FATE is written as GATE, then how will BLUE be written in that code?

1. CLUE
2. GLUE
3. FLUE
4. SLUE

66. You go North, turn right, then right again and then go to left. In which direction are you now?

1. North
2. South
3. East
4. West

67. Identify the diagram that best represents the relationship among classes given below

Language, English, Kannada



68. If \div means \times , \times means $+$, $+$ means $-$ and $-$ means \div , find the value of

$$16 \times 3 + 5 - 2 \div 4$$

1. 9
2. 10
3. 19
4. none of these

69. Assertion (A): Beri-beri is a viral infection.

Reason (R): Vitamin deficiency causes diseases.

1. If both A and R are true and R is the correct explanation of A
2. If both A and R are true but R is not the correct explanation of A
3. If A is false but R is true
4. If both A and R are false

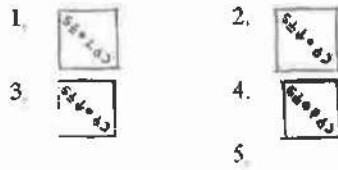
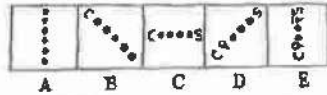


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VII - I - SPAT

70. The following question consists of five figures marked A, B, C, D and E called the problem figures which are followed by four other figures marked 1, 2, 3 and 4 called the Answer figures. Select a figure from amongst the answer figures which will continue the same series as established by the five problem figures.

PROBLEM FIGURES



Rough Work



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Maheshwari Vidya Pracharak Mandal , Pune's

Deshbhakt Harinarayan Bankatlal Soni College , Solapur



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DHB SONI COLLEGE TALENT SEARCH – 2018 A SEARCH FOR ACADEMIC SCHOLARS

Date : 16/12/2018

Question Booklet

Seat No :

Batch – II

Standard – VIII

Max. Marks : 280

Instructions for Candidates

1. Please write your Exam . Seat No . Clearly Exam Seat No. is **6 digit code number** .
2. All Questions are Compulsory .
3. This Question paper has 3 sections consisting of total 70 questions.
Section I : Mathematics : Q. 01 to Q.30
Section II : Science : Q.31 to Q.60
Section III : Logic & Reasoning : Q.61 to Q.70
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correct method
5. **Darken** the circles for correct answer in the provided **OMR Sheet** .
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10. College decision is **final & binding** in regard to any conflicts .
11. All disputes are subject to Solapur jurisdiction .


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Section I : Maths

1. Between any two rational numbers there exists _____ rational numbers.
 1. Finite
 2. Infinite
 3. two
 4. one
2. $(x+y+z)(x-y-z) =$
 1. $x^2 + y^2 + z^2 - 2xy + 2yz - 2zx$
 2. $x^2 + y^2 + z^2 + 2xy + 2yz - 2zx$
 3. $x^2 - y^2 - z^2 - 2yz$
 4. $x^2 + y^2 + z^2 - 2xy + 2yz + 2zx$
3. Two numbers are such that one number is 42 more than the second number and their average is equal to 40. The two numbers are _____.
 1. Prime numbers
 2. A prime and a composite
 3. Two composite numbers
 4. None of these
4. The value of 'x' in $\frac{4}{x-2} = \frac{9}{x+8}$ is _____.
 1. 0
 2. 2
 3. 10
 4. -1
5. Among the following that is not a rational number
 1. e
 2. $-\left[\sqrt{\frac{2}{9}}\right]$
 3. 0.142857142857...
 4. All the above
6. The value of $(2.5)^3 - (1.5)^3 =$ _____.
 1. 14.25
 2. -14
 3. 12.25
 4. -8
7. One is subtracted from Ramanujan's number, the cube root of resultant difference is _____.
 1. A multiple of 6
 2. A prime number
 3. A factor of 100
 4. Three



8. Among the following, a quadrilateral with opposite sides unequal, and diagonals unequal

1. Rhombus
2. Kite
3. Rectangle
4. Parallelogram

9. $8^{1/3} + 25^{3/2} - \left(\frac{1}{27}\right)^{-1/3} = \underline{\hspace{2cm}}$

1. A multiple of 6
2. A perfect cube
3. A multiple of 4
4. A multiple of 7

10. A quadrilateral with two pairs of equal adjacent sides is _____.

1. Rectangle
2. Trapezium
3. Parallelogram
4. Kite

11. Divide Rs. 80 among three people so that the second will get twice as much as the first, and the third will get Rs.5 less than the second. The least amount goes to _____.

1. First person
2. Second person
3. Third person
4. Each gets same amount

12. The square root of a perfect square is _____.

1. Not a rational number
2. Not an integer
3. A rational number
4. Both 1 and 2

13. $a^2 + 3b - 3a - ab =$

1. $(a+3)(a-b)$
2. $(a+3)(a+b)$
3. $(a-3)(a-b)$
4. $(a-3)(a+b)$

14. Cube of a number ending in 7 will have _____ as its units digits

1. 1
2. 2
3. 3
4. 8

15. If $2^n = 64$, the value of 2^{n+2}

1. 4^{-1}
2. 2^5
3. 4^1
4. 2^{-5}



16. The value of $\{a^2 - b^3\}^{-3}$ for $a = -2$ and $b = -1$ is _____

1. 125 2. -125
3. $\frac{1}{125}$ 4. $-\frac{1}{125}$

17. Rational number that does not lie between 2 and 3 is _____

1. $\sqrt{5}$ 2. $\sqrt{9}$
3. $\sqrt{7}$ 4. $2\sqrt{2}$

18. A rectangular garden has length of $x + 2$ and width of $x + 1$ and an area of 42sq cm. The perimeter of garden is _____.

1. 26cm 2. 62cm
3. 13cm 4. 31cm

19. The number of measurements required to construct a quadrilateral is ____.

1. A prime number
2. A least composite number
3. A composite number
4. A factor of 16

20. $\sqrt[3]{262144}$ is _____

1. A perfect square
2. A perfect cube
3. A two digit number
4. All the above

21. We can represent _____ numbers on the number line.

1. Rational
2. Irrational
3. Both A and B
4. Non-terminating non-repeating

22. $\sqrt[3]{4\frac{12}{125}} \div \sqrt[3]{0.000064} =$

1. 400 2. 0.4
3. 0.04 4. 40

23. The value of $\left(\frac{3}{2}\right)^4 - \left(\frac{3}{4}\right)^4 =$ _____

1. $\frac{1215}{256}$ 2. $\frac{1215}{256}$
3. $\frac{256}{1215}$ 4. $\frac{256}{1215}$



24. Which of the following is not true for a parallelogram?

1. Opposite sides are equal
2. Opposite angles are equal
3. Opposite angles are bisected by diagonals
4. Diagonals bisect each other

25. If one side of a cube is 15 m in length, then the volume of the cube is _____

1. 3753
2. 3375
3. 7533
4. 5733

26. If $a^2 = 0.0049$, then $a^3 =$ _____

1. 0.343
2. 0.0343
3. 0.00343
4. 0.000343

27. If $\sqrt{3^p} = 2187$, then the value of $\sqrt[3]{3^{n+1}} =$ _____.

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2. A perfect square
3. A multiple of perfect cube
4. All the above

28. $12xy(9x^2 - 16y^2) + 4xy(3x + 4y) =$

1. $6x - 8y$
2. $3(3x - 4y)$
3. $2(3x - 4y)$
4. $9x + 12y$

29. In which of the following quadrilateral, the diagonals do not intersect at 90°

1. Square
2. Rhombus
3. Kite
4. Parallelogram

30. The average of 35, 45 and x is equal to five more than twice x. Then $x =$ _____

1. 13
2. 31
3. 65
4. 93

Section II : Science

31. In the process of welding metals like stainless steel and aluminum,

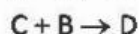
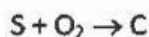
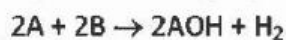
- I. Oxy acetylene flame is used
- II. Liquid helium is used
- III. Liquid oxygen is used
- IV. Liquid nitrogen is used

The correct statements (s) is/are

1. I and III
2. Only II



3. II, III and IV
 4. None of these
32. Tungsten is used in electric bulbs because
1. it is sonorous
 2. it has high melting point
 3. it has tensile strength
 4. it has high density
33. A force of 25N acts on a body of area of cross section 100m^2 . The pressure is
1. $\frac{1}{4}\text{N/m}^2$
 2. 0.25N/m^2
 3. Both 1 and 2
 4. 4N/m^2
34. Atmospheric pressure is
1. Pressure that the atmosphere exerts
 2. The area that force exerts
 3. Force per unit area
 4. None of these
35. The correct order of increasing chemical reactivity is
1. $\text{Zn} < \text{Fe} < \text{Mg} < \text{K}$
 2. $\text{Fe} < \text{Mg} < \text{Zn} < \text{K}$
 3. $\text{Fe} < \text{Mg} < \text{K} < \text{Zn}$
 4. $\text{Fe} < \text{Zn} < \text{Mg} < \text{K}$
36. Study the following equations and mark the correct option



	A	B	C	D
1.	Na	H_2O	SO_2	H_2SO_3
2.	Na	H_2O	SO_2	H_2SO_4
3.	K	H_2O	SO_2	H_2SO_4
4.	K	H_2O	SO_3	H_2SO_3

37. Richa took some blue vitriol and dissolved it into water now, she placed a strip of zinc metal into the solution and leaves it for some time.

After some time, she observed that

- I. zinc strip slowly loses its weight
- II. copper settles at the bottom of the beaker
- III. blue colour of the solution becomes fade

The correct observations (s) is/are



1. I and II 2. I and III
3. Only III 4. I, II and III

38. Consider the following statements

- I. Metal X can displace Y from its salt solution but not hydrogen from water or dilute acid
- II. metals Z and A both release hydrogen with dilute acids
- III. Metal Z releases hydrogen with nitric acid but metal A does not
- IV. Metal A is not able to displace metal Z from its salt solution

On the basis of above observations, the order of reactivity of these metals is

1. $Z > A > X > Y$
2. $A > Z > X > Y$
3. $Z > A > Y > X$
4. $A > Z > Y > X$

39. The relation between SI and C.G.S unit of force is _____

1. $1\text{N} = 10^{-5}$ dyne
2. $1\text{N} = 10$ dyne
3. $1\text{N} = 10^5$ dyne
4. $1\text{N} = 100$ dyne

40. The examples of contact forces are

1. Muscular force, electrostatic force
2. Magnetic force, muscular force
3. Tension, gravitational force
4. Frictional force, tension

41. The physical quantity which changes or tries to change the position of an object is

1. Area 2. Force
3. Momentum 4. Pressure

42. A force of 1200N acts on a surface area. Find the thrust & surface area in cm^2 if pressure is 1.2×10^6

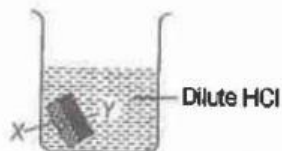
1. 120N, 0.1 cm^2
2. 12000 N, 10 cm^2
3. 1200N, 10 cm^2
4. 10N, 1200 cm^2

43. Part 'X' is present in a plant cell. It is absent in most of the animal cells. Some animal cells have it, but they are much smaller than those present in plant cell.

What is 'X'?



1. Plastids
 2. Vacuole
 3. Nucleus
 4. Mitochondria
44. Cells make up A; A make B; B make up C; and C make up an organism. What is A, B, C?
1. Organ, tissue, organ system
 2. Tissue, organ system, organ
 3. Tissues, organs, organ system
 4. Organ system, tissues, organs
45. Gravitational force on an object is termed as
1. Mass
 2. Weight
 3. Pressure
 4. Force
46. The device used to measure liquid pressure is
1. Manometer
 2. Ammeter
 3. Motometer
 4. Nanometer
47. Liquid pressure
1. Increases with depth
 2. Decreases with depth
 3. Depends on the density of the liquid
 4. Both 1 and 3
48. Sherya formed assembly of two metals by using different pairs of metals and fastening them together. Then he immersed it in dilute hydrochloric acid



- What should be X and Y so that after 5 min, the beaker contains the least amount of zinc ions?
1. Magnesium and zinc
 2. Lead and zinc
 3. Iron and zinc
 4. Silver and zinc
49. The pressure is measured in
1. dyne/cm²
 2. N/m²
 3. Pascal



4. All the above
50. An unknown metal X when placed in copper sulphate solution gives a red brown precipitate, when placed in magnesium sulphate solution gives no reaction. Identify element x.
1. Sodium
 2. Potassium
 3. Calcium
 4. Iron
51. The Kyoto protocol is associated with one of the following. This one is
1. Reduction in the emission of greenhouse gases
 2. Reduction in the use of chlorofluorocarbons
 3. Reduction in the cutting of forest trees
 4. Reduction in pollution of fresh water sources
52. Biochemical Oxygen Demand (BOD) in river water:
1. Increase when sewage gets mixed with river water
 2. Remains unchanged when algal bloom occurs
 3. Has no relationship with concentration of oxygen in the water
 4. None of the above
53. Escherichia coli used as an indicator organism to determine pollution of water with
1. Industrial effluents
 2. Heavy metals
 3. Pollen of aquatic plants
 4. Faecal matter
54. How a virus establishes itself in an animal?
1. By killing the animal cells and replacing them with its own genetic material
 2. By invading the animal cells and replicating the cell's genetic material
 3. By creating new animal cells
 4. By invading the animal cells and replicating its own genetic material
55. There are two pits A and B in the garden. In pit A Ria put a polythene bag in the garden with some fruit peels. In pit B she dumped the same kind of waste but without packing it in a polythene bag. She then covered both the pits with soil. What is her observation after a month?
1. Fruit peels in pit A degraded faster than that of pit B
 2. Fruit peels in pit B degraded faster than that of pit A
 3. Waste in both the pits degraded almost equally
 4. Waste in both the pits did not degrade at all



56. Milk, if left out of the refrigerator will go sour . Which of the following is incorrect regarding this?

- A. Viruses cause milk to go sour faster
- B. As milk goes sour, it becomes more acidic
- C. The higher the temperature, the faster the milk will go sour
- D. Bacterial action causes the milk to go sour
- E. Milk is converted into acetic acid

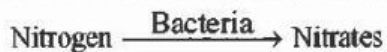
Choose the correct option?

- 1. A and B
- 2. B and D
- 3. A and E
- 4. C and D

57. Microorganisms can be unicellular or multicellular. Some of their examples are given below. Select the correct categorization of unicellular and multicellular microorganisms.

Unicellular	Multicellular
1. Diatoms and chlamydomonas	Volvox and penicillum
2. Diatoms	Cyanobacteria and chlamydomonas
3. Cyanobacteria	Diatoms and Chlamydomonas
4. Chlamydomonas	Diatoms and Volvox

58. Observe and identify the process shown by the equation



- 1. Nitrification
- 2. Nitrogen fixation
- 3. Decomposition
- 4. Denitrification

59. I am an animal cell that needs to travel fast from one part to another in an organism. I am able to travel through small spaces quickly because i do not have a nucleus. My function is to distribute a gas. Which cell am I?

- 1. Nerve cell
- 2. White blood cell
- 3. Red blood cell
- 4. Egg cell



60. Which one of the following statements is wrong in case of Bhopal, (India) tragedy?

1. It took place in the night of December 2/3/1984
2. Methyl isocyanate gas leakage took place
3. Thousands of human beings died
4. Radioactive fallout engulfed Bhopal

Section III :- Logic & Reasoning

61. Identify the diagram that best represents the relationship among classes given below

Language, English, Kannada

- 1.
- 2.
- 3.
- 4.

62. If \div means \times , \times means $+$, $+$ means $-$ and $-$ means \div , find the value of 16
 $\times 3 + 5 - 2 \div 4$

1. 9
2. 10
3. 19
4. none of these

63. If in a certain code, LUTE is written as MUTE and FATE is written as GATE, then how will BLUE be written in that code?

1. CLUE
2. GLUE
3. FLUE
4. SLUE

64. You go North, turn right, then right again and then go to left. In which direction are you now?

1. North
2. South
3. East
4. West

65. **Assertion (A):** Beri-beri is a viral infection.

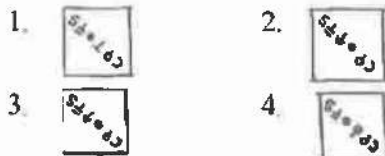
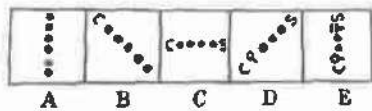
Reason (R): Vitamin deficiency causes diseases.

1. If both A and R are true and R is the correct explanation of A
2. If both A and R are true but R is not the correct explanation of A
3. If A is false but R is true
4. If both A and R are false



66. The following question consists of five figures marked A, B, C, D and E called the problem figures which are followed by four other figures marked 1,2,3 and 4 called the Answer figures. Select a figure from amongst the answer figures which will continue the same series as established by the five problem figures.

PROBLEM FIGURES



67. Part is related to Whole in the same way as Arc is related to?

- 1. Trapezium 2. Circle
- 3. Triangle 4. Square

68. Choose out the odd one

- 1. Curd 2. Butter
- 3. Oil 4. cream

69. Find out the wrong term in the following:

196,169,144,121,101

- 1. 101 2. 121
- 3. 169 4. 196

70. Find out the missing term(s):

A, B, B, D, C, F, D, H, E, ?, ?

- 1. E, F 2. F, G
- 3. F, I 4. J, F



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DHB SONI COLLEGE TALENT SEARCH – 2018

A SEARCH FOR ACADEMIC SCHOLARS

Date : 16/12/2018

Question Booklet

Seat No :

Batch – II

Standard – IX

Max. Marks : 280

Instructions for Candidates

1. Please write your **Exam . Seat No . Clearly** Exam Seat No. is **6 digit code number .**
2. **All Questions** are Compulsory .
3. This Question paper has 3 sections consisting of total 70 questions.
Section I : Mathematics : Q. 01 to Q.30
Section II : Science : Q.31 to Q.60
Section III : Logic & Reasoning : Q.61 to Q.70
4. Each Question has four options from which one option is correct
correct method
5. **Darken** the circles for correct answer in the provided **OMR Sheet .**
6. Each Question carries **4 Marks.**
7. Use only dark **HB Pencil /Pen .**
8. There is **no negative marking** for incorrect answers .
9. **Rough work** is to be done at the end of the booklet .
10. College decision is **final & binding** in regard to any conflicts .
11. All disputes are subject to Solapur jurisdiction .


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Section I : Maths

1. Identify the possible solution(s) for a pair of linear equations given below

$$x = 1 - 2y \text{ and } y + 3x = 13$$

2. (5, -2) 3. (-5, 2)
4. (-5, -2) 5. (5, 2)

2. One number exceeds the other by 11. The sum of two numbers is 5. The numbers are _____

1. 8 and +3 2. -3 and -8
3. -8 and 3 4. 8 and -3

3. The degree of the polynomial "0" is _

1. 1
2. 0
3. Undefined
4. Can't be determined

4. The number $0.\bar{3}$ in the form $\frac{p}{q}$, where p and q are integers and $q \neq 0$ and

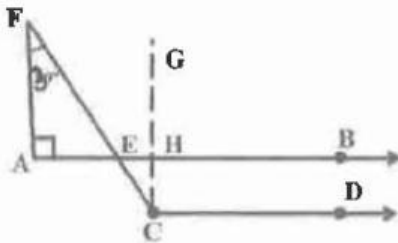
(p, q) = 1 is _____

1. $\frac{33}{100}$ 2. $\frac{3}{10}$
3. $\frac{1}{3}$ 4. $\frac{3}{100}$

5. Ravish tells his daughter Aarushi "seven years ago, I was seven times as old as you were then. Also, three years from now, I shall be three times as old as you will be". The sum of present ages of Ravish and Aarushi is _____

1. 42 2. 54
3. 48 4. 12

6. In the figure, $AB \parallel CD$ and $\angle F = 30^\circ$ then $\angle ECD =$ _____



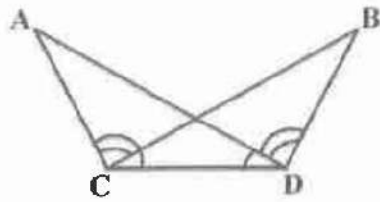
1. 30° 2. 60°
3. 90 4. 120°

7. In a trapezium ABCD, $AB \parallel CD$, and $AD = BC$. If P, Q, R and S are the midpoints of BA, BD, CD and CA respectively then what type of quadrilateral do you get after joining P, Q, R and S

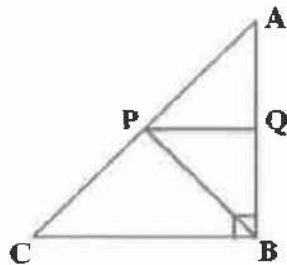
1. trapezium 2. rhombus
3. rectangle 4. kite



8. In the figure, $\angle BCD = \angle ADC$ and $\angle ACB = \angle BDA$. Name the criterion basing on which, $\triangle ACD \cong \triangle BDC$



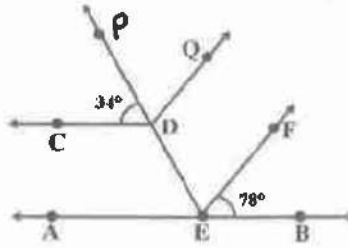
1. AAA 2. RHS
3. ASA 4. SSS
9. If ABCD is a rhombus with $\angle ABC = 56^\circ$ then $\angle ACD =$ ____
1. 28° 2. 56°
3. 62° 4. 90°
10. ABC is a right angled triangle and P is the midpoint of AC. $PQ \perp AB$ Then identify the correct statement



1. Q is the midpoint of AB
2. $PB = PA = \frac{1}{2} AC$
3. Both 1 and 2
4. Neither 1 nor 2
11. Which set of real numbers contains only rational numbers
1. $\{\sqrt{121}, \sqrt{196}, \sqrt{24}, 12\}$
2. $\{\sqrt{144}, \frac{13}{2}, \frac{5}{3}, \sqrt{3}\}$
3. $\{\sqrt{169}, \frac{5}{2}, \sqrt{121}, \frac{14}{4}\}$
4. $\{\sqrt{169}, \frac{58}{3}, \frac{13}{2}, \sqrt{31}\}$
12. $\sqrt{1000} + \sqrt{1210} + \sqrt{1440} =$ ____
1. $10\sqrt{33}$ 2. $33\sqrt{10}$
3. $10\sqrt{33}$ 4. $33\sqrt{10}$



13. In the figure, $AB \parallel CD$ and $EF \parallel DQ$, then $\angle AED =$ _____



1. $\angle PDQ$
2. $2\angle DEF$
3. $\frac{1}{2}\angle DEF$
4. $2\angle PDQ$

14. In a triangle XYZ , $\angle X = 62^\circ$, YO and ZO are bisectors of $\angle XYZ$ and $\angle XZY$ respectively. $\angle YOZ =$ _____

1. 90°
2. 31°
3. 121°
4. 32°

15. If $(3x - 1)^7 = a_7x^7 + a_6x^6 + a_5x^5 + \dots + a_1x + a_0$ then

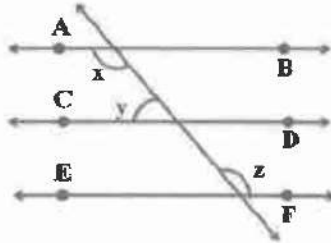
$a_7 + a_6 + a_5 + \dots + a_1 + a_0 =$ _____

1. 0
2. 1
3. 128
4. 64

16. When $x^3 - 2x^2 + ax - b$ is divided by $x^2 - 2x - 3$ the remainder is $x - 6$. The values of 'a' and 'b' respectively are _____

1. -2, -6
2. 2 and -6
3. -2 and 6
4. 2 and 6

17. In figure, if $AB \parallel CD$, $CD \parallel EF$ and $y : z = 3 : 7$ then the value of x is _____



1. 54°
2. 126°
3. 18°
4. Data insufficient

18. Two lines AB and CD intersect at O . If $\angle AOC + \angle COB + \angle BOD = 270^\circ$ then the values of $\angle AOC$, $\angle COB$, $\angle BOD$ and $\angle DOA$ respectively are _____

1. $30^\circ, 60^\circ, 50^\circ, 40^\circ$
2. $30^\circ, 30^\circ, 60^\circ, 60^\circ$
3. $90^\circ, 90^\circ, 90^\circ, 90^\circ$



4. Can't be determined

19. If $(x-1)$ is a factor of polynomial $f(x)$ but not of $g(x)$, then it must be a factor of

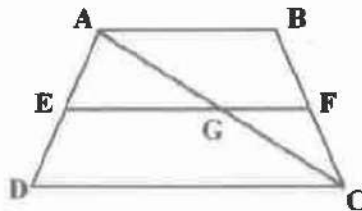
1. $f(x)g(x)$
2. $f(x) - g(x)$
3. $-f(x) + g(x)$
4. $[f(x) + g(x)]g(x)$

20. If $x - a$ is a factor of

$x^3 - 3x^2a + 2a^2x + b$, then the value of 'b' is _____

1. 0
2. 2
3. 1
4. 3

21. ABCD is a trapezium, in which side AB is parallel to side DC and E is the midpoint of side AD. If F is a point on the side BC such that the segment EF is parallel to side DC then EF _____

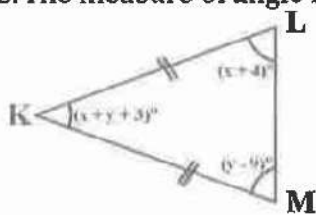


1. $AB+DC$
2. $\frac{1}{2}(AB+DC)$
3. $AB-DC$
4. $2(AB-DC)$

22. The angles of a parallelogram if one angle is 24° less than twice the smallest angle _____

1. $68^\circ, 112^\circ, 68^\circ, 112^\circ$
2. $108^\circ, 72^\circ, 108^\circ, 72^\circ$
3. $37^\circ, 143^\circ, 37^\circ, 143^\circ$
4. none of these

23. The measure of angle k from the figure



1. 95°
2. 43°
3. 39°
4. 94°



24. If $x = 2\alpha + 1$ and $y = \alpha - 1$ is a solution of the equation $2x - 3y + 5 = 0$ then 'a'

- = _____
- | | |
|-------|--------|
| 1. 10 | 2. 0 |
| 3. 1 | 4. -10 |

25. $\triangle ABC \cong \triangle PQR$, If $\triangle ABC$ is not congruent to $\triangle PQR$, then which of the following is not true?

- | | |
|--------------|--------------|
| 1. $BC = PQ$ | 2. $AC = PR$ |
| 3. $AB = PQ$ | 4. $QR = BC$ |

26. If both $a, b \in \mathbb{Q} \Rightarrow \frac{\sqrt{5} + \sqrt{3}}{\sqrt{5} - \sqrt{3}} = a + b\sqrt{15}$ then $a + b =$ _____

- | | |
|-------|------|
| 1. 8 | 2. 3 |
| 3. 11 | 4. 5 |

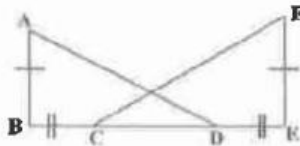
27. In a quadrilateral $ABCD$, CO and DO are the bisectors of $\angle C$ and $\angle D$ respectively then $\angle COD =$ _____

- | | |
|---------------------------------------|-----------------------------|
| 1. $\angle A + \angle B$ | 2. $2(\angle A + \angle B)$ |
| 3. $\frac{1}{2}(\angle A + \angle B)$ | 4. $\angle A - \angle D$ |

28. $\sqrt{38 + 12\sqrt{10}} =$ _____

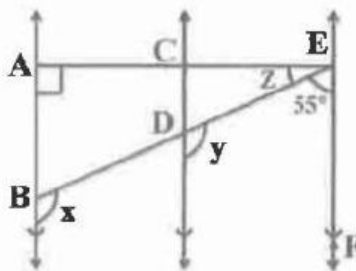
- | | |
|----------------------------|----------------------------|
| 1. $2\sqrt{5} - 3\sqrt{2}$ | 2. $2\sqrt{5} + 3\sqrt{2}$ |
| 3. $5\sqrt{2} + 2\sqrt{3}$ | 4. $5\sqrt{2} - 2\sqrt{3}$ |

29. In the given figure, $AB \perp BE$ and $EF \perp BE$. If $BC = DE$ and $AB = EF$, then $\triangle ABD$ is congruent to _____



- | | |
|--------------------|--------------------|
| 1. $\triangle EFC$ | 2. $\triangle ECF$ |
| 3. $\triangle CEF$ | 4. $\triangle FEC$ |

30. In the figure, $AB \parallel CD$ and $CD \parallel EF$. Also $EA \perp AB$. If $\angle BEF = 55^\circ$, then identify the correct statement.



- | | |
|------------|----------------|
| 1. $x = y$ | 2. $x = z$ |
| 3. $y = z$ | 4. $x = y = z$ |



Section II : Science

31. The energy possessed by an object of mass 10kg when it is at a height of 6m above the ground ($g = 9.8 \text{ m/s}^2$)
1. 588 J
 2. 100 J
 3. 600 J
 4. 98 J
32. The mass of a body if it is moving with a velocity of 20m/s and has kinetic energy 100J is
1. 5.00 kg
 2. 0.5 kg
 3. 5 kg
 4. 50kg
33. A helicopter of mass 1200kg is on the helipad. It's momentum is ($g = 10\text{ms}^{-2}$)
1. 0
 2. 12000
 3. 120
 4. 12
34. A flying aeroplane consists of
1. Only potential energy
 2. Potential, kinetic energies
 3. Only kinetic energy
 4. Neither potential nor kinetic
35. When a bus starts suddenly the passengers receive a backward jerk. It is due to
1. Inertia of direction
 2. Inertia of motion
 3. Inertia of rest
 4. Can't say any thing
36. Two balls A and B of masses 'm' and '2m' are in motion with velocities $2v$ and v respectively. Compare their ratio of inertia and force needed to stop them
1. 2:1 & 1:1
 2. 1:1 & 1:1
 3. 1:4 & 2:1
 4. 1:2 & 1:1
37. The correct form of Newton's second law is
1. $F = \frac{\Delta p}{\Delta t}$
 2. $F = m \cdot \frac{\Delta V}{\Delta t}$
 3. $F = V \cdot \frac{\Delta m}{\Delta t}$
 4. $F = mv$
38. The linear momentum of a ball of mass 50g is 0.5 kg ms^{-1} . The velocity of the ball is
1. 50 ms^{-1}
 2. 10 ms^{-1}
 3. 0.5 ms^{-1}
 4. Zero
39. The relation between S.I, C.G.S units of work is
1. $1\text{N} = 10^5 \text{ dyne}$
 2. $1\text{J} = 10^{-7} \text{ erg}$
 3. $1\text{J} = 10^7 \text{ erg}$
 4. $1\text{J} = 10^2 \text{ erg}$



40. The relation between commercial unit of power and S.I. unit of work is
1. 1Kwh = 1000W
 2. 1Kwh = 3600W
 3. 1Kwh = 746W
 4. 1Kwh = 3.6×10^6 J
41. Which one of the following is the salt of a binary acid?
1. Calcium sulphate
 2. Magnesium bromide
 3. Zinc phosphate
 4. Sodium carbonate
42. 'Alum' is an example of:
1. Single salt
 2. Double salt
 3. Acids
 4. None of these
43. The phosphate of a metal has the formula MPO_4 . The formula of its nitrate will be:
1. MNO_3
 2. $M(NO_3)_2$
 3. $M(NO_3)_2$
 4. $M(NO_3)_3$
44. Which of the following is not the correct formula:
1. H_2S
 2. $NaHSO_4$
 3. SiO_2
 4. $NaSiO_3$
45. 6.02×10^{24} molecules represents
1. 1 mole
 2. 2 mole
 3. 10 moles
 4. 0.1 mole
46. The weight of 6.023×10^{23} molecules of carbon monoxide is
1. 25 gm
 2. 26 gm
 3. 27 gm
 4. 28 gm
47. Identify the salts whose aqueous solution has the highest pH at the same temperature.
1. NaCl
 2. $(NH_4)_2SO_4$
 3. CH_3COONH_4
 4. K_2CO_3
48. Identify the acidic salt which can react with one mole of base mono acidic among the following:
1. $(NH_4)_2CO_3$
 2. Na_2HPO_3
 3. NaH_2PO_3
 4. CH_3COOK
49. 16 grams of a gas at STP occupies 11.2 litre. The molecular weight of the gas is
1. 23
 2. 25
 3. 30
 4. 32



50. On electrolysis of brine solution, the products formed are:
1. Sodium and chlorine
 2. Hydrogen, chlorine and oxygen
 3. Hydrogen, chlorine and sodium hydroxide
 4. Sodium hydroxide, chlorine and oxygen
51. Which of the following is incorrect about tuberculosis?
1. it is caused by salmonella
 2. it commonly affects lungs
 3. bacterial release tuberculin toxin
 4. patient's sputum contains blood
52. *Ascaris lumbricoides* is common roundworm of
1. Liver
 2. bile duct
 3. large intestine
 4. small intestine
53. Read the following statements
- a. Exoskeleton of scales, egg laying outside water- Feature of Reptilia
 - b. Exoskeleton of scales, endoskeleton of bones breathing through gills - features of Pisces
1. a correct, b incorrect
 2. b correct, a incorrect
 3. Both a, b incorrect
 4. Both a, b correct
54. Nikitha not accepting that whale is not a fish but a mammal, but Sirisha convinced her on this basis
1. Whale is viviparous
 2. Its skin covered by hair
 3. Feed babies with milk
 4. All of the above
55. Hemophilia is
1. acute disease
 2. deficiency disease
 3. chronic disease
 4. congenital disease
56. Making anti-viral drugs is more difficult than making anti-bacterial medicines because
1. virus makes use of host-machinery
 2. viruses are on the border line of living and non-living
 3. viruses have very few biochemical mechanism of their own



4. viruses have a protein coat
57. Coral are ____
1. Poriferans attached to some solid support
 2. Cnidarians that are solitary living
 3. Poriferans present at the sea bed
 4. Cnidarians that live in colonies
58. Congenital diseases are those which
1. are deficiency diseases
 2. are present from time of birth
 3. are spread from man to man
 4. occur during life time
59. In which group of animals, coelom is filled with blood?
1. Arthropoda
 2. Annelida
 3. Nematoda
 4. Echinodermata
60. Choose the option that best describes the feature of spirogyra.
1. multicellular, autotrophic, root like rhizoids
 2. cytoplasmic strands, autotrophic, presence of rhizome
 3. presence of male cones, nonvascular, filaments
 4. filamentous, presence of cytoplasmic strands, presence of pyrenoids

Section III : Logic & Reasoning

61. If FISH is written as EHRG in a certain code, how would JUNGLE be written in that code?
1. ITMFKD
 2. ITNFKD
 3. KVOHMF
 4. TIMFKD
62. A man is facing south. He turns 135° in the anti clockwise direction and then 180° in the clockwise direction. Which direction is he facing now?
1. North-east
 2. North-west
 3. South-east
 4. South-west



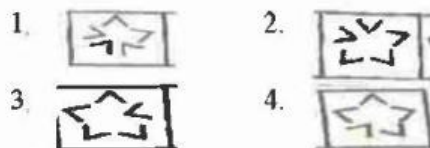
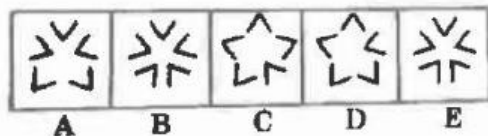
63. **Assertion (A):** A ship rises as it enters the sea from a river

Reason (R): The density of sea water is higher as compared to river water.

1. If both A and R are true and R is the correct explanation of A
2. If both A and R are true but R is not the correct explanation of A
3. If A is false but R is true
4. If both A and R are false

64. The following question consists of five figures marked A, B, C, D and E called the problem figures which are followed by four other figures marked 1, 2, 3 and 4 called the Answer figures. Select a figure from amongst the answer figures which will continue the same series as established by the five problem figures.

PROBLEM FIGURES



65. Find out the wrong term in the following:

325, 259, 202, 160, 127, 105, 94

1. 94
2. 127
3. 202
4. 259

66. Find out the missing term:

AI, BJ, CK, ?

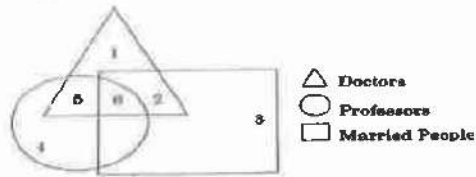
1. DL
2. DM
3. GH
4. LM

67. Choose out the odd one

1. Potassium
2. Silicon
3. Gallium
4. Germanium
- 5.



68.



Which number indicates doctors who are not married?

- 1. 6
- 2. 1
- 3. 4
- 4. 2

69. If '<' means 'minus', '>' means 'plus', '=' means 'multiplied by' and '\$' means 'divided by', then what would be the value of

$$27 > 81 \$ 9 < 6?$$

- 1. 6
- 2. 33
- 3. 54
- 4. none of these

70. Chef is related to Restaurant in the same way as Druggist is related to ___?

- 1. Medicine
- 2. Pharmacy
- 3. Store
- 4. chemist



Rough Work



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DHB SONI COLLEGE TALENT SEARCH – 2018 A SEARCH FOR ACADEMIC SCHOLARS

Date : 16/12/2018

Question Booklet

Seat No :

Batch – II

Standard – X

Max. Marks : 280

Instructions for Candidates

1. Please write your **Exam . Seat No . Clearly** Exam Seat No. is **6 digit code number .**
2. **All Questions** are Compulsory .
3. This Question paper has 3 sections consisting of total 70 questions.
Section I : Mathematics : Q. 01 to Q.30
Section II : Science : Q.31 to Q.60
Section III : Logic & Reasoning : Q.61 to Q.70
4. Each Question has four options from which one option is correct
correct method
5. **Darken** the circles for correct answer in the provided **OMR** Sheet .
6. Each Question carries **4 Marks**.
7. Use only dark **HB Pencil /Pen** .
8. There is **no negative marking** for incorrect answers .
9. **Rough work** is to be done at the end of the booklet .
10. College decision is **final & binding** in regard to any conflicts .
11. All disputes are subject to Solapur jurisdiction .

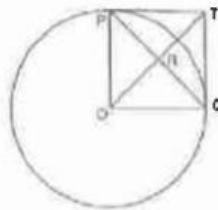

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Section I : Maths

- There are 25 trees at equal distances of 5m in a line with a well the distance of the well from the nearest tree being 10 meters. A gardener waters all the trees separately starting from the well and he returns to the well after watering each tree to get water for the next. The total distance that the gardener has to cover in order to water all the trees is _____
 - 2000 m
 - 2500 m
 - 3000 m
 - 3500 m
- If $(a, 0)$, $(0, b)$ and $(1, 1)$ are collinear then identify the correct condition
 - $\frac{1}{a} + \frac{1}{b} + 1 = 0$
 - $a + b = 1$
 - $\frac{1}{a} - \frac{1}{b} = 1$
 - $\frac{1}{a} + \frac{1}{b} = 1$
- A pole has to be erected at a point on the boundary of a circular park of diameter 13m in such a way that the difference of its distances from two diametrically opposite fixed gates A and B on the boundary is 7 meters. At what distance from the gate B should the pole be erected?
 - 1m
 - 2m
 - 4m
 - 5m
- If sum of 5th and 9th terms of an A.P. is 72 and the sum of 7th and 12th terms is 97, then the A.P. can be written as _____
 - 6, 11, 16, 21, ...
 - 14, 21, 28, ...
 - 1, 7, 13, 19, ...
 - 9, 12, 15, 18, ...
- A point 'p' divides the line segment joining the points A(-10, 4) B(-2, 0) lies on the line segment joining the points C(-9, -4) and D(-4, y). The ratio in which 'p' divides CD is ____
 - 1:3
 - 3:2
 - 2:3
 - 1:4
- If (a, b) is the midpoint of the line segment joining the points A(10, -6) B(k, 4) and $a - 2b = 18$ then $AB =$ _____ units
 - $\sqrt{61}$
 - $2\sqrt{61}$
 - $16\sqrt{2}$
 - $\sqrt{512}$
- Ravi had some bananas and he divided them into two lots A and B. He sold first lot at the rate of ₹2 for 3 bananas and second lot at the rate of ₹1 per banana and got a total of ₹400. If he had sold the first lot at the rate of ₹1 per banana and the second lot at the rate of ₹4 per 5 bananas, his total collection would have been ₹460. The total number of bananas he had _____



1. 300 2. 600
3. 500 4. 800
8. The sum of a two digit number and the number formed by interchanging its digit is 110. If 10 is subtracted from the first number, the new number is 4 more than 5 times the sum of the digits in the first number. The first number is _____
1. 64 2. 46
3. 32 4. 23
9. The foot of a ladder is 6cm away from a wall and its top reaches a window 8m above the ground. If the ladder is shifted in such a way that its foot is 8m away from the wall to what height does its tip reach?
1. 5m 2. 6m
3. 7m 4. 8m
10. P and Q are points on sides AB and AC respectively of ΔABC . If $AP = 3\text{cm}$, $PB = 6\text{cm}$, $AQ = 5\text{cm}$ and $QC = 10\text{cm}$, $BC =$ _____
1. PQ 2. 2PQ
3. 3PQ 4. 4PQ
11. The natural number whose square is diminished by 84 is equal to thrice of 8 more than the given number is
1. 24 2. 21
3. 12 4. 11
12. A train travels a distance of 300km at constant speed. If the speed of the train is increased by 5km an hour, the journey would have taken 2 hours less. The original speed of the train is
1. 20 kmph 2. 25 kmph
3. 30 kmph 4. 35 kmph
13. The length of a tangent drawn to a circle with radius 5cm from a point 13cm from the center of the circle is
1. 15cm 2. 12cm
3. 24cm 4. 7.5cm
14. In fig. $PO \perp OQ$, O is the center of the circle. The tangents to the circle at P and Q intersect at a point T. $\angle TRP =$ _____



1. 45° 2. 90°
3. 180° 4. 270°



15. Area of trapezium formed by the lines $x = 0$, $y = 0$, $y = 4$ and $2x + y = 6$ is

_____ sq. units

1. 3 2. 1
3. 8 4. 6

16. Identify the line that is passing through the point representing solution of the pair of linear equations $x + y = 2$ and $2x - y = 1$

1. $3x + 2y = 5$
2. $2x - 3y = 2$
3. $x - y = 4$
4. $2x + 3y + 5 = 0$

17. The roots of $\sqrt{3}x^2 + 10x + 7\sqrt{3} = 0$ are _____

1. $\sqrt{3}, \frac{7}{\sqrt{3}}$ 2. $-\sqrt{3}, \frac{7}{\sqrt{3}}$
3. $-\sqrt{3}, \frac{-7}{\sqrt{3}}$ 4. $\sqrt{3}, \frac{-7}{\sqrt{3}}$

18. The value of 'k' if

$x^2 - 2x(1 + 3k) + 7(3 + 2k) = 0$ has real and equal roots _____

1. -2 2. $\frac{10}{9}$
3. $\frac{-10}{9}$ 4. 1

19. The number of integers between 50 and 500 that are divisible by 7 = ____

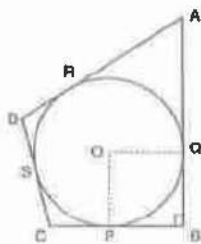
1. 13 2. 64
3. 82 4. 17

20. Identify the term of A.P. 3, 10, 17, that will be 84 more than its 13th term

1. 15th 2. 20th
3. 25th 4. 30th

21. A circle is inscribed in a quadrilateral ABCD in which $\angle B = 90^\circ$. If

$AD = 23\text{cm}$, $AB = 29\text{cm}$ and $DS = 5\text{cm}$, radius of the circle is ____



1. 10cm 2. 11cm
3. 12cm 4. 13cm



22. From the figure, $AQ =$ _____



1. 15cm 2. 4cm
3. 5cm 4. 12cm
23. The value of 'x' is
 $1+4+7+10+\dots+x = 287$
1. 14 2. 40
3. 140 4. 0
24. If S_n denotes the sum of first 'n' terms of an A.P. , if $S_{3n} = S_{2n}$, then find the ratio $\frac{S_{3n}}{S_n}$
(1) 4 (2) 5
(3) 6 (4) 3
25. A man has only 20 paise coins and 25 paise coins in his purse. If he has 50 coins in all totaling ₹11.25, how many coins of each kind does he have?
1. 20,30 2. 25,25
3. 10,40 4. 15,35
26. The digits of a +ve integer having three digits are in A.P. and their sum is 15. The number obtained by reversing the digits is 594 less than the original number. The number is _____
1. 582 2. 258
3. 825 4. 852
27. The areas of two similar triangles are 36cm^2 and 100cm^2 . If the length of a side of the smaller triangle is 3cm the length of the corresponding side of the larger triangle is _____
1. 1cm 2. 2cm
3. 4cm 4. 5cm
28. If all the sides of a parallelogram touch a circle then the parallelogram is a _____
1. square 2. rhombus
3. rectangle 4. trapezium
29. Distance between $(a \sin^2 \alpha, -b \cos^2 \alpha)$ and $(-a \cos^2 \alpha, b \sin^2 \alpha)$ is _____
1. $a^2 + b^2$ 2. $a^2 - b^2$
3. $\sqrt{a^2 + b^2}$ 4. $\sqrt{a^2 - b^2}$
30. If the coordinates of midpoints of the sides of a triangle are (1,1), (2, 3) and (3,4) its centroid is _____
1. $(-2, \frac{8}{3})$ 2. $(2, \frac{8}{3})$



3. (3,4)

4. $\left(2, \frac{8}{3}\right)$

Section II : Science

31. The substances which have infinitely high electrical resistance are
1. insulators
 2. conductors
 3. insulation
 4. semi insulators
32. Which of the following is correct
1. $R = \rho(\ell + A)$
 2. $R = \rho \frac{\ell}{a}$
 3. $R\rho = \frac{\ell}{A}$
 4. $R = \rho - (\ell - A)$
33. The number of electrons present in 1 coulomb of charge is
1. 6.25×10^{18}
 2. 625×10^{14}
 3. 625×10^{18}
 4. 62500
34. $1\text{MV} \times 1\text{KV} \times 1\mu\text{V}$ ($\text{V} = \text{volt}$) is equal to
1. 10^2V
 2. 10^3V
 3. 10V
 4. 10^4V
35. Material used for heating coils is
1. copper
 2. Manganin
 3. Nichrome
 4. Silver
36. The combination used to increase the resistance in a circuit is
1. parallel
 2. can't say
 3. anti parallel
 4. series
37. $H = I^2Rt$ is the mathematical expression for
1. Newton's first law of motion
 2. Pascal's law
 3. Newton's law of gravitation
 4. Joule's law of heating
38. Two resistors have a combined resistance of 25Ω when they are connected in series combination, when they are connected in parallel 4Ω is combined resistance. The value of two resistors
1. $1\Omega, 24\Omega$
 2. $20\Omega, 5\Omega$
 3. $15\Omega, 10\Omega$
 4. $0\Omega, 25\Omega$



39. The S.I. unit of resistivity is
1. Ω/m
 2. Ωm^2
 3. Ωm
 4. Ω
40. A lady has 10 resistors each of resistance $\frac{1}{10}\Omega$. The smallest resistance that she make with them
1. $\frac{1}{100}\Omega$
 2. $\frac{1}{10}\Omega$
 3. $\frac{1}{20}\Omega$
 4. 10Ω
41. $AgNO_3 + NaCl \rightarrow AgCl + NaNO_3$. This reaction is:
1. Precipitation reaction
 2. Double displacement reaction
 3. Combustion reaction
 4. Combination reaction
42. A change is said to be chemical change when
1. Energy changes occurs
 2. New substances are formed
 3. The change cannot be easily reversed
 4. All statements are correct
43. The long form of periodic table is based on:
1. Number of electrons
 2. Mass of the atoms
 3. Electronegativity
 4. Shape of the atom
44. The pair of atomic numbers which belong to the same group:
1. 9, 14
 2. 17, 51
 3. 6, 53
 4. 12, 56
45. Which of the following is a displacement reaction?
1. $CaO + H_2O \rightarrow Ca(OH)_2$
 2. $MgCO_3 \rightarrow MgO + CO_2$
 3. $2Na + 2H_2O \rightarrow 2NaOH + H_2$
 4. $H_2 + Cl_2 \rightarrow 2HCl$
46. In the reaction $3MnO_2 + 4Al \rightarrow 3Mn + 2Al_2O_3$, the oxidizing agent is:
1. MnO_2
 2. Al
 3. Al_2O_3
 4. Mn
47. If the radius of an element X of electronic configuration is 2, 8, 3 is 0.76\AA , the radius of element Y of electronic configuration 2, 8, 5 is:
1. 0.64\AA
 2. 0.76\AA



3. 0.88 \AA

4. 1.08 \AA

48. The number of valence electrons of sodium is:

1. 1

2. 2

3. 3

4. 6

49. Aluminium oxide reacts with sulphuric acid to form:

1. Aluminium sulphate and hydrogen

2. Aluminium sulphate and oxygen

3. Aluminium sulphate and water

4. Aluminium sulphate and sulphur dioxide

50. Match the following:

COLUMN - I	COLUMN - II
A. Dobereiner	p. Atomic weight
B. Newland	q. Atomic number
C. Mendeleef	r. Law of octaves
D. Modern periodic table	s. Law of triads

1. A - r; B - s; C - p; D - q

2. A - s; B - p; C - r; D - q

3. A - s; B - r; C - p; D - q

4. A - p; B - q; C - r; D - s

51. What will happen if deer is missing in the food chain given below?

Grass \longrightarrow Deer \longrightarrow Tiger

1. The population of tigers increases

2. The population of grass decreases

3. Tigers will start eating grass

4. The population of tigers decrease and the population of grass increases

52. Which of the following statements is incorrect?

1. all green plants and blue green algae are producers

2. green plants get their food from readymade organic compounds

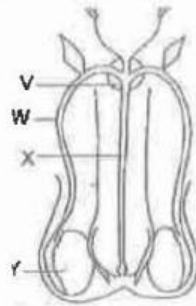
3. producers prepare their own food from inorganic compounds

4. plants convert solar energy into chemical energy



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53. The figure given alongside shows the human male reproductive organs. Which structures makes sperms and seminal fluid?



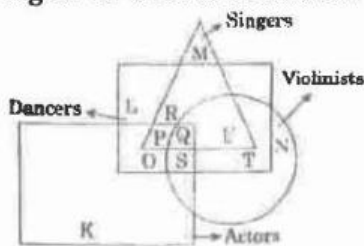
1. V makes sperms and X makes seminal fluid
 2. W makes sperms and Y makes seminal fluid
 3. X makes sperms and W makes seminal fluid
 4. Y makes sperms and V makes seminal fluid
54. The length of pollen tube depends on the distance between:
1. pollen grain and upper surface of stigma
 2. pollen grain on upper surface of stigma and ovule
 3. pollen grain in anther and upper surface of stigma
 4. upper surface of stigma and lower part of style
55. Some dinosaurs had feathers although they could not fly but birds have feathers that help them to fly. In the context of evolution, this means birds:
1. reptiles have evolved from birds
 2. there is no evolutionary connection between reptiles and birds
 3. feathers are homologous structures in both the organisms
 4. birds have evolved from reptiles
56. The decomposers in an ecosystem:
1. convert inorganic material to simpler forms
 2. convert organic material to inorganic forms
 3. convert inorganic material into organic compounds
 4. do not break down organic compounds
57. Which one of the following best describes the function of the umbilical cord?
It:
1. Feeds the embryo with digested substances
 2. Conveys nutrients and wastes to and from the embryo respectively
 3. Removes waste matter from the embryo to the mother's blood
 4. Supplies oxygenated blood from the mother to the embryo



58. Which of the following may be used to obtain an F_2 generation?
1. allowing flowers on a parent plant to be self-pollinated
 2. allowing flowers on an F_1 plant to be self-pollinated
 3. cross-pollinating an F_1 plant with a parent plant
 4. cross-pollinating two parent plants
59. In order to ensure that he had pure-breeding plants for his experiments, Mendel:
1. cross-fertilised each variety with each other.
 2. let each variety self fertilise for several generations.
 3. removed the female parts of the plants.
 4. removed the male parts of the plants.
60. In peas, a pure tall plant (TT) is crossed with a pure short plant (tt). The ratio of pure tall plants to pure short plants in F_2 generation will be:
1. 1:3
 2. 3:1
 3. 1:1
 4. 2:1

Section III : Logic & Reasoning

61. In the given figure, which letter represents those actors who are also Dancers, Singers as well as Violinists?



1. S
 2. Q
 3. P
 4. U
62. If \rightarrow stands for 'addition', \leftarrow stands for 'subtraction', \uparrow stands for 'division' \downarrow stands for 'multiplication', \square stands for 'equal to', then which of the following alternatives is correct?
1. $7 \leftarrow 43 \uparrow 6 \downarrow 1 \square 4$
 2. $3 \downarrow 6 \uparrow 2 \rightarrow 3 \leftarrow 6 \square 5$
 3. $5 \rightarrow 7 \leftarrow 3 \uparrow 2 \square 4$
 4. $2 \downarrow 5 \leftarrow 6 \rightarrow 2 \square 6$
63. Find out the wrong term in the following:
24576, 6144, 1536, 386, 96, 24
1. 96
 2. 386
 3. 1536
 4. 6144



64. Find out the missing term:

DEF, HIJ, MNO, ?

1. STU
2. RST
3. RTV
4. SRQ

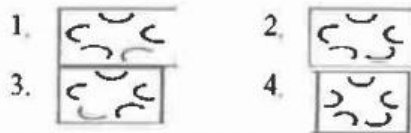
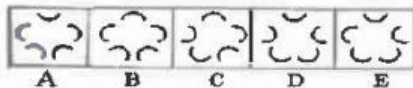
65. **Assertion (A):** Salt is added to cook food at higher altitudes.

Reason (R): Temperature is lower at higher altitudes.

1. If both A and R are true and R is the correct explanation of A
2. If both A and R are true but R is not the correct explanation of A
3. If A is false but R is true
4. If both A and R are false

66. The following question consists of five figures marked A, B, C, D and E problem figures followed by five other figures marked 1,2,3,4 and 5 Answer figures. Select a figure from amongst the answer figures which will continue the same series

PROBLEM FIGURES



67. Manick walked 40 metres towards North, took a left turn and walked 20 metres. He again took a left turn and walked 40 metres. How far and in which direction is he from the starting point?

1. 20 metres East
2. 20 metres North
3. 100 metres South
4. None of these

68. Choose out the odd one

1. Cheetah
2. Lion
3. Leopard
4. Bear

69. Rhythm is related to Music in the same way as Design is related to _?

1. Symmetry
2. Architect
3. Beauty
4. Building

70. If SUMMER is coded as RUNNER, the code for WINTER will be

1. SUITER
2. VIOUER
3. WALKER
4. SUFFER



Rough Work



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DHB SONI COLLEGE TALENT SEARCH -2018

ANSWER KEY(Batch – I)

CLASS – VIII

MATHS										
Q.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
A.	3	2	1	4	1	1	3	2	1	1
Q.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
A.	1	4	3	3	3	2	1	3	3	2
Q.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.
A.	3	2	4	4	1	2	3	3	4	2
SCIENCE										
Q.	31.	32.	33.	34.	35.	36.	37.	38.	39.	40.
A.	3	4	4	2	1	3	1	2	3	4
Q.	41.	42.	43.	44.	45.	46.	47.	48.	49.	50.
A.	4	1	1	4	1	4	2	2	2	3
Q.	51.	52.	53.	54.	55.	56.	57.	58.	59.	60.
A.	3	2	2	3	1	1	1	4	4	4
LOGIC										
Q.	61.	62.	63.	64.	65.	66.	67.	68.	69.	70.
A.	1	4	2	3	1	3	3	1	3	1


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ANSWER KEY(Batch – I)

CLASS – IX

MATHS										
Q.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
A.	3	3	1	1	3	3	4	2	3	2
Q.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
A.	4	1	4	4	2	4	1	2	3	3
Q.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.
A.	3	2	3	1	4	3	1	2	3	3
SCIENCE										
Q.	31.	32.	33.	34.	35.	36.	37.	38.	39.	40.
A.	1	2	3	4	1	2	3	4	1	2
Q.	41.	42.	43.	44.	45.	46.	47.	48.	49.	50.
A.	3	4	4	4	4	3	2	2	4	2
Q.	51.	52.	53.	54.	55.	56.	57.	58.	59.	60.
A.	4	4	4	4	1	2	4	1	4	3
LOGIC										
Q.	61.	62.	63.	64.	65.	66.	67.	68.	69.	70.
A.	3	1	2	1	1	4	2	4	1	1

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DHB SONI COLLEGE TALENT SEARCH -2018

ANSWER KEY(Batch – I)

CLASS – X

MATHS										
Q.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
A.	3	1	2	3	1	3	3	3	2	4
Q.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
A.	1	2	3	4	1	3	4	4	4	2
Q.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.
A.	2	3	4	2	3	1	2	2	2	2
SCIENCE										
Q.	31.	32.	33.	34.	35.	36.	37.	38.	39.	40.
A.	1	2	3	4	1	2	3	4	1	2
Q.	41.	42.	43.	44.	45.	46.	47.	48.	49.	50.
A.	1	4	1	1	3	3	1	1	4	3
Q.	51.	52.	53.	54.	55.	56.	57.	58.	59.	60.
A.	4	2	2	2	2	3	4	2	4	2
LOGIC										
Q.	61.	62.	63.	64.	65.	66.	67.	68.	69.	70.
A.	2	1	4	4	2	4	2	4	2	1


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DH'B SONI COLLEGE TALENT SEARCH-2018

Answer Key

CLASS X (BATCH II)

MATHS

Q.	1	2	3	4	5	6	7	8	9	10
A	4	4	4	1	2	2	3	1	2	3
Q.	11	12	13	14	15	16	17	18	19	20
A	3	2	2	2	3	1	3	3	2	3
Q.	21	22	23	24	25	26	27	28	29	30
A	2	1	1	3	2	4	4	2	3	4

SCIENCE

Q.	31	32	33	34	35	36	37	38	39	40
A	1	2	1	2	3	4	4	2	3	1
Q.	41	42	43	44	45	46	47	48	49	50
A	1	4	1	4	3	1	1	1	3	3
Q.	51	52	53	54	55	56	57	58	59	60
A	4	2	4	2	4	2	2	2	2	3

LOGIC AND REASONING

Q.	61	62	63	64	65	66	67	68	69	70
A	2	4	2	1	2	1	4	4	4	2


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DHB SONI COLLEGE TALENT SEARCH-2018

Answer Key

CLASS IX (BATCH II)

MATHS

Q.	1	2	3	4	5	6	7	8	9	10
A	1	4	3	3	2	4	2	3	3	3
Q.	11	12	13	14	15	16	17	18	19	20
A	3	2	3	3	3	3	2	3	1	1
Q.	21	22	23	24	25	26	27	28	29	30
A	2	1	4	4	1	4	3	2	4	1

SCIENCE

Q.	31	32	33	34	35	36	37	38	39	40
A	1	2	1	2	3	4	1	2	3	4
Q.	41	42	43	44	45	46	47	48	49	50
A	2	2	4	4	3	4	4	2	4	3
Q.	51	52	53	54	55	56	57	58	59	60
A	1	4	4	4	4	3	4	2	1	4

LOGIC AND REASONING

Q.	61	62	63	64	65	66	67	68	69	70
A	1	4	1	1	3	1	1	2	4	2

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Answer Key

CLASS VIII (BATCH II)

MATHS										
Q.	1	2	3	4	5	6	7	8	9	10
A	2	3	1	3	4	1	1	2	1	4
Q.	11	12	13	14	15	16	17	18	19	20
A	1	3	3	3	3	3	2	1	1	1
Q.	21	22	23	24	25	26	27	28	29	30
A	3	4	2	3	2	4	3	2	4	2

SCIENCE										
Q.	31	32	33	34	35	36	37	38	39	40
A	2	2	3	1	4	1	4	1	3	4
Q.	41	42	43	44	45	46	47	48	49	50
A	2	3	2	3	2	1	4	1	4	4
Q.	51	52	53	54	55	56	57	58	59	60
A	1	1	4	4	2	3	1	2	3	4

LOGIC AND REASONING										
Q.	61	62	63	64	65	66	67	68	69	70
A	3	1	1	3	3	1	2	3	1	4


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D.H.B. SONI COLLEGE , SOLAPUR
TALENT SEARCH EXAM RESULT 2018 - 19
Std :- VIII (Maths-Grace 4 Marks) (Out of 280)

Seat no	Name	School	Maths	Maths+4	Sci	Logic	Total	Rank
108094	Priyadarshi Anup Ubale	Indain Model School Solapur	104	108	120	32	260	1
108017	Anish Ajay Bhagwat	Indain Model School Solapur	112	116	92	28	236	2
108170	Nikhil Upadhye	S.R Chandak HighSchool	108	112	88	36	236	2
108058	Gunik Maloo	S.R Chandak HighSchool	112	116	76	36	228	3
108005	Aditi Abhijeet Jagtap	Indain Model School Solapur	96	100	88	32	220	4
108019	Anvi Suryaprakash Karande	Indain Model School Solapur	92	96	88	36	220	4
108049	Dhriti Shilendra Surana	Indain Model School Solapur	100	104	80	36	220	4
108060	Iashan Prasanna Khatawkar	Indain Model School Solapur	76	80	92	36	208	5
108146	Tanvi Vijay Sivpuje	Indain Model School Solapur	88	92	76	32	200	6

Std :- IX (No Grace Marks) (Out of 280)

Seat no.	Name	School	Maths	Sci	Logic	Total	Rank
109059	Kedar Pandit Dhepe	B.F. Damanl Prashala Solapur	104	84	36	224	1
109001	Aabha Lahurikar	St. Joseph High School	108	84	28	220	2
109038	Gauri Bhutada	S.R Chandak HighSchool	112	76	32	220	2
109093	Neha Daga	S.R Chandak HighSchool	96	96	28	220	2
109188	Tejas Sunulkumar Mutale	V.M Mehta HighSchool	104	72	36	212	3
109016	Anish Rathi	S.R Chandak HighSchool	96	80	32	208	4
109190	Tejswini Ingalgi	Solapur	100	76	32	208	4
109045	Harsh Bhutada	S.R Chandak HighSchool	100	72	28	200	5
109133	Rishi Deshmukh	Solapur	104	68	28	200	5
109072	Laksh Chajed	S.R Chandak HighSchool	92	76	28	196	6

Std :- X(Maths-Grace 8 Marks) (Out of 280)

Seat No	Name	School	Maths	Math+8	Science	Logic	Total	Rank
110012	Ameya A Katare	St. Joseph High School Solapur	84	92	120	36	248	1
110012	Siddhant H Munde	St. Joseph High School Solapur	96	104	112	32	248	1
110066	Nayan Vaid	S.R Chandak HighSchool	100	108	96	32	236	2
110067	Neel Sarwade	St. Joseph High School Solapur	96	104	100	32	236	2
110002	Aarya Deepak Tanksale	IR St Thomas	96	104	92	36	232	3
110070	Ojas Sunil Joshi	St. Joseph High School Solapur	76	84	108	40	232	3
110079	Pranav Biyani	S.R Chandak HighSchool	92	100	100	28	228	4
210037	Habib Pratik	Model Public School	88	96	100	32	228	4
110037	Harish Karwa	S.R Chandak HighSchool	92	100	88	36	224	5
110093	Saiswarup N .	St. Joseph High School Solapur	84	92	108	24	224	5
110001	Aakash Vannam	St. Joseph High School Solapur	92	100	96	24	220	6

Mr. Sunilji Maheshwari
Event coordinator

Dr. Vasanti Iyer
Principal

Mr. Anandji Bhandari
Secretary

MR. Laxmikantji Somani
Chairman


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Solapur

DHB Soni College (2018-19)
105/2B, VIAJAPUR ROAD,
VAISHNAVI NAGAR, SAIFUL,
SOLAPUR-413004

Prize Money DHB Soni Talent Search
Ledger Account

1-Jan-2019 to 31-Jan-2019

Date	Particulars	Vch Type	Vch No.	Debit	Page 1 Credit
1-1-2019	By Opening Balance				1,600.00
19-1-2019	To Central Bank of India A/c No. 3173068368 current A/c Being paid to Prudarshi Anup Ubale for VIII Std. 1st prize Exps.	Payment	1325	11,000.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to Anish Ajay Bhagwat for VIII Std. 2nd prize Exps.	Payment	1326	7,500.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to Anish Nikhil Upadhaye for VIII Std. 2nd prize Exps	Payment	1327	7,500.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to Gunit Maloo for VIII Std. 3rd prize Exps	Payment	1328	5,000.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to Aditi Abhijit Jagtap for VIII Std. consolation prize	Payment	1329	1,000.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to Dhriti Shilendra Surana for VIII Std. consolation prize	Payment	1330	1,000.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to Ishan Prasanna Khatawkar for VIII Std. consolation prize	Payment	1331	1,000.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to Tanavi Vijay Sivpuje for VIII Std. consolation prize	Payment	1332	1,000.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to IX Std. 1st prize Exps. Kedar Pandit Dhepe	Payment	1333	11,000.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to IX Std. 2nd Prize Abha lehurikar	Payment	1334	7,500.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to IX Std. 2nd Prize Guari Bhutada	Payment	1335	7,500.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to IX Std. 2nd Prize Neha daga	Payment	1336	7,500.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to IX Std. 2nd Prize Tejas Sunilkumar Mutale	Payment	1337	5,000.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to IX Std. consolation Prize Anish Rathi	Payment	1338	1,000.00	

Carried Over

Nesya
PRINCIPAL
D.H.B. Soni College.
Solapur

74,500.00 1,600.00

continued ...

DHB Soni College (2018-19)

Prize Money DHB Soni Talent Search Ledger Account : 1-Jan-2019 to 31-Jan-2019

Date	Particulars	Vch Type	Vch No.	Debit	Credit
	Brought Forward			74,500.00	1,600.00
19-1-2019	To Central Bank of India A/c No. 3173068368 current A/c Being paid to IX Std. consolation Prize Tejaswini Ingalgi	Payment	1339	1,000.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to IX Std. consolation Harsha Bhutada	Payment	1340	1,000.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to IX Std. consolation Rishi deshmukh	Payment	1341	1,000.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to IX Std. consolation Laksha Chajed	Payment	1342	1,000.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to X Std. 1st prize Ameya A Katare	Payment	1343	11,000.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to X Std. 1st prize Siddhant H Munde	Payment	1344	11,000.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to X Std. 2nd Prize Nayan Vaid	Payment	1345	7,500.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to X Std. 2nd Prize Neel sarawade	Payment	1346	7,500.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to X Std. 3rd prize Arya Deepak Tanksale	Payment	1347	5,000.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to X Std. 3rd prize Ojas Sunil Joshi	Payment	1348	5,000.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to X Std. consolation Prize Pranav biyani	Payment	1349	1,000.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to X Std. consolation Prize Harish Karwa	Payment	1350	1,000.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to X Std. consolation Prize Saiswaroop N.	Payment	1351	1,000.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to X Std. consolation Prize akash mane	Payment	1352	1,000.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to Biyani Kunika XII Sci. Topper prize	Payment	1357	21,600.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to Biyani Saurav XII Sci. Topper prize	Payment	1358	21,600.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to Nogje varun XII Comm. Topper prize	Payment	1360	7,200.00	
	Carried Over			1,79,900.00	1,600.00


PRINCIPAL
 D.H.B. Soni College.
 Solapur

DHB Soni College (2018-19)

Prize Money DHB Soni Talent Search Ledger Account : 1-Jan-2019 to 31-Jan-2019

Page 3

Date	Particulars	Vch Type	Vch No.	Debit	Credit
	Brought Forward			1,79,900.00	1,600.00
19-1-2019	To Central Bank of India A/c No. 3173068368 current A/c Being paid to Madare priyanka XII Comm. Topper prize	Payment	1362	7,200.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to Nogja Aishwarya XII Comm. Topper prize	Payment	1364	7,200.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to Raikar Atharva NEET Topper prize	Payment	1366	21,600.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to Virkar Saket Neet Topper prize	Payment	1367	21,600.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to Fulari Shubham Neel Topper prize	Payment	1368	21,600.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to Nakate Ashish Neet Topper prize	Payment	1369	21,600.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to dalavi Anjali Ananed BCA III Topper prize	Payment	1370	2,000.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to X Std. consolation Prize habib Pratik	Bank Payment 1	6	1,000.00	
	To Central Bank of India A/c No. 3173068368 current A/c Being paid to X Std. consolation Prize Avinash karand	Bank Payment 1	7	1,000.00	
By	Closing Balance			2,84,700.00	1,600.00
					2,83,100.00
				2,84,700.00	2,84,700.00


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शुक्रवार, दि. ११ डिसेंबर २०१८

सुयज्य

सोनी टॅलेंट सर्च परीक्षेत १ हजार विद्यार्थ्यांचा सहभाग

✓ सोलापूर : माहेःस्वरी विद्या प्रचारक मंडळ, पुणे संचलित देशभक्त हनिनारायण बंकरलाल सोनी महाविद्यालय सोलापूर यांच्यावतीने नुकतेच आयोजित डेव्हिसन कॉलेज टॅलेंट सर्च २०१८-सर्च फॉर अॅकॅडमिक स्कॉलर या परीक्षेत एक हजार विद्यार्थ्यांचा सहभाग नोंदविला. या परीक्षेसाठी सोलापूर जिल्ह्यातील एकूण ४३ शाळांमधील आठवी, नववी व दहावीच्या विद्यार्थ्यांनी भाग घेतला. ग्रामीण व शहरी भागातील एकूण १०३१ विद्यार्थ्यांनी या स्पर्धेमध्ये सहभाग नोंदविला. मराठी व इंग्रजी या दोन्ही माध्यमातून घेण्यात आलेली ही परीक्षा जणित, सामाज्य विज्ञान या विषयांवर आधारित होती. एकूण २८० गुणांची ही परीक्षा वस्तुनिष्ठ व बहुपर्यायी स्वरूपाची होती. या चाचणी परीक्षेचे आयोजन करण्यासाठी हाईट बोर्ड ठरवून प्रा.लि.हैद्राबाद या शैक्षणिक क्षेत्रातील स्पर्धात्मक परीक्षेच्या चांगल्या उत्कृष्ट परंपरा असलेल्या संस्थेचे सहकार्य लाभले.


PRINCIPAL
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Solapur

17 DEC 2019

दिव्य मराठी

डी.एच.बी. सोनी टॅलेंट सर्चला विद्यार्थ्यांचा उत्स्फूर्त प्रतिसाद

सोलापूर : माहेश्वरी विद्या प्रचारक मंडळ, पुणे संचालित देशभक्त हरिनारायण बंकटलाल सोनी महाविद्यालय, सोलापूर यांच्यापाठीने रविवार दि. १६ डिसेंबर २०१८ रोजी आयोजित "DHB SONI COLLEGE TALENT SEARCH 2018 - A SEARCH FOR ACADEMIC SCHOLAR" या परीक्षेस विद्यार्थ्यांचा उत्स्फूर्त प्रतिसाद मिळाला.

या परीक्षेसाठी संपूर्ण सोलापूर जिल्हयातील एकूण ४३ शाळांमधील तसेच कोचिंग बलासेसमधील ८ वी, ९वी व १० वीच्या विद्यार्थ्यांनी भाग घेतला. ग्रामीण व ग्रामीण भागातील एकूण १०३१ विद्यार्थ्यांनी या पदासाठी आपला सहभाग नोंदविला.



मराठी व इंग्रजी या दोन्ही माध्यमातून घेण्यात आलेली ही परीक्षा गणित, सामान्य विज्ञान व तार्किक विचार या विषयांवर आधारित होती. एकूण २८० गुणांची ही परीक्षा वस्तुनिष्ठ व बहुपर्यायी स्वरूपाची होती.

या चाचणी परीक्षेचे आयोजन करण्यासाठी सॉर्ट बोर्ड हेचर प्रा. लि.

हैद्राबाद या शैक्षणिक क्षेत्रातील स्पर्धात्मक परीक्षेच्या चांगल्या उत्कृष्ट परंपरा असलेल्या संस्थेचे सहकार्य लाभले. डी.एच.बी. सोनी कॉलेजची व्यवस्थापन समिती, प्राचार्या, उपप्राचार्या, शिक्षकवृंद व विद्यार्थी यांच्या सहकार्याने सदर परीक्षा उत्कृष्ट पध्दतीने सुरळीतपणे पार पडली.


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Neelam
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Web-site: <http://www.dhbsonicollege.com>

REPORT OF DHB SONI TALENT SEARCH EXAM 2019

After receiving an overwhelming response for last two years, DHB Soni College organized its 3rd Talent Search Exam on 1st Dec 2019. The major objective of this exam was to identify the hidden talent among students of various schools in rural and urban area of Solapur district. The exam also aimed at acquainting students with the nature of future competitive exams after 12th. This year we could reach out to maximum schools in Solapur district. The exam was for conducted for the students of 8th, 9th and 10th class. It was based on the syllabus of science, math and logic reasoning. The exam was in the form of MCQ's and carried 280 marks. The syllabus was framed and the question papers were set by the team of subject experts.

Different schools all over the district were approached and informed about the exam. In all 1300 students from 55 schools in rural as well as city area participated in this event.

This year we received huge response from schools in rural part of the district. The exam was taken in two slots. Morning and afternoon batch was prepared. The exam was conducted in a more strict and disciplined atmosphere. After assessment the merit list for each standard was prepared and the result of the exam was finalized by the exam committee. Attractive cash Prizes of Rs. 11000/-, Rs. 7500/- & Rs. 5000/- were awarded on the annual day function to the first three students in the merit lists of rural and urban areas for each standard. The consolation prizes were given to five students from each class. Five consolation prizes were given separately for the students from rural area to encourage them. Thus the event was a grand success and received overwhelming response from students.


PRINCIPAL
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Solapur

For Std. VIII, IX & X

- Exam will be of 280 (70 x 4) marks.
- The number of questions will be

Gen. Science	: 30
Mathematics	: 30
Logic & Reasoning	: 10

- Exam will be in the form of MCQs with one correct choice.
- Answer sheets will be in the form of OMR sheets.
- Exam will be based on the syllabus as enclosed
- The duration of Exam will be 2 hrs.

WINNERS OF DHB SONI COLLEGE TALENT SEARCH 2018

STANDARD X

Name	Mark	School
Ameya Katare	248	St. Joseph High School
Siddhant Munde	248	St. Joseph High School
Nayan Vaid	236	S.R. Chandak High School
Neel Sarwade	236	St. Joseph High School
Aarya Tanksale	232	St. Thomas School
Ojas Joshi	232	St. Joseph High School

STANDARD IX

Name	Mark	School
Kedar Dhepe	224	B.F. Damani Prashala
Abha Lahurikar	220	St. Joseph High School
Gauri Bhutada	220	S.R. Chandak High School
Neha Daga	220	S.R. Chandak High School
Tejas Mutale	212	V.M. Mehata High School

STANDARD VIII

Name	Mark	School
Priyadarshi Ubale	260	Indian Model School
Anish Bhagwat	232	Indian Model School
Nikhil Upadhye	232	S.R. Chandak High School
Gunik Maloo	228	S.R. Chandak High School

DHB SONI COLLEGE TALENT SEARCH 2019

CASH PRIZES

Particulars	Group A (Std. X Students)	Group B (Std. IX Students)	Group C (Std. VIII Students)
1st Prize	₹11000/-	₹11000/-	₹11000/-
2nd Prize	₹7500/-	₹7500/-	₹7500/-
3rd Prize	₹5000/-	₹5000/-	₹5000/-
Consolation Prizes (10)	₹1000/-	₹1000/-	₹1000/-

* 5 for Urban Students & 5 for Rural Students

- Participation Certificate for all students.
- Trophies for all participating schools.

Result and Prize Distribution

- Result : Last week of December
- Prize distribution will be held on the annual prize distribution ceremony of our college

Event Head

Dr. Vasanti C. Iyer

Principal

Mrs. Hardeep R. Bombrá

Vice Principal

Contact

Dr. Katap Kavita	9890035665
Mr. Peerzade Abdul	7083178770
Mr. Sahota Santoksingh	9168880449
Mr. Chandak Mahesh	9158966166
Mr. Kantikar Prakash	8087420694

Contact

DHB Soni College,

105/2B, Vaishnavi Nagar, Saiful, Vijapur Road,
Solapur-413004

Phone Number : 0217-2341366, 2301366

Email : sonitalentsearch@gmail.com

website : www.dhbsonicollege.com



Maheshwari Vidya Pracharak Mandali, Pune's
Deshbhakt Harinarayan Bankatlal

SONI COLLEGE, SOLAPUR

(Hindi Linguistic Minority Institute)

Proudly Presents

3rd

Annual Talent Search Exam



**DHB SONI COLLEGE
TALENT SEARCH 2019**

**a search for
ACADEMIC SCHOLARS**

Neha

ONLINE REGISTRATION AT

PRINCIPAL www.dhbsonicollege.com

D.H.B. Soni College,
Solapur



ABOUT DHB SONI COLLEGE

Dashbhakti Harihararayan Bankatnal Sonli College is one of the leading private educational institutes situated in the city of Solapur. It was founded by the Maheshwar Vidya Pracharak Mandal, Pune in 2006, with a mission to aspire and strive for excellence in education by developing and sharpening the intellectual and human potential of learners for the good of society and our stakeholders.

Over the past decade, the college has earned a prestigious reputation of harnessing a progressive outlook towards education by introducing career oriented courses, ICT enabled teaching facilities, outreach activities and discipline. DHB Sonli College offers outstanding graduate programs in B.Sc. (Entire computer science) and BCA, each with a real world focus.

The Junior College was established in 2014 where courses are offered in Science and Commerce stream. Besides preparing students for HSC Board Examination, we also help students to prepare and go through the competitive exams such as IIT, NDA, AIEEE, BITSAT, JEE, NATA, IISAT SAT, CET, NEET, AIIMS, AFMC, CA-CPT, CS-Foundation and Tally courses.

COURSES OFFERED

Junior College

- Science : Regular / Elite - Preparation for JEE / NEET (Limited Seats)
- Commerce : Regular / Aspire - C.A. / C.S Foundation / Management Entrance Preparation (Limited Seats)

Senior College

- B.C.A & B.Sc. / (Fee)

3rd Annual Talent Search Exam



**DHB SONI COLLEGE
TALENT SEARCH 2019**

ACADEMIC SCHOLARS

Eligibility Criteria

- Group A : Standard X
- Group B : Standard IX
- Group C : Standard VIII

Registration Fee

Rs. 50/- per Student (Non Refundable)

Exam Details

- Date of Exam : 1st December 2019
- Last Date of Registration : 25th November 2019
- Exam Center : DHB Sonli College, Solapur
- Duration : 2 hrs
- Batch 1 Time : 10am to 12pm
- Batch 2 Time : 2pm to 4 pm
- Medium of Exam : English & Marathi
- Prize distribution will be held on the annual prize distribution ceremony of our college

In Technical Support with



WHY TALENT SEARCH

We, at DHB Sonli College, Solapur are taking this initiative to bring in limelight the hidden talent and the academic scholars of Solapur district.

OBJECTIVES OF THIS TALENT SEARCH

- To test students' analytical skills in advance which they will require in future while taking competitive exams like CET, CAT, JEE, NEET, CA-CPT, etc.
- To help the students to recognize their knowledge, aptitude and skills in particular subject area (science and maths).
- To provide students a platform where they can showcase their natural abilities.
- To offer guidance to the gifted students and help them to further hone their true potential.

Rules and Regulations

- Registration of students through institutes as well as at individual level
- It is compulsory for the students to carry duly attested letter and ID card from the school & essential writing material (HB Pencil)
- The board of examiners decision regarding syllabus, paper pattern and result will be final and binding to all.
- Students should report half an hour before their respective batches.
- Students are not allowed to use calculator and phones.
- Students will be disqualified if found malpracticing.
- In case of same score (tie) the prize amount will be divided amongst those students equally.
- **For Upcountry Students** (Outside Solapur city)
 - Upcountry students will be paid travel allowance (to and fro - Actual S.T. fare)
 - The reimbursement is limited to maximum 5 students of each group (Maximum 15 students) along with one faculty from every institute.
 - In case registration from any upcountry institute exceeds 5 (Maximum 15 students) remaining students have to bear cost of travel on their own.



Maheshwari Vidya Pracharak Mandal, Pune's
Deshbakt Harinarayan Bankatlal
SONI COLLEGE, SOLAPUR
(Hindi Linguistic Minority Institute)

**ATTRACTIVE
CASH PRIZES**

Particulars	Group A (Std. X Students)	Group B (Std. IX Students)	Group C (Std. VIII Students)
1st Prize	₹11000/-	₹11000/-	₹11000/-
2nd Prize	₹7500/-	₹7500/-	₹7500/-
3rd Prize	₹5000/-	₹5000/-	₹5000/-
Consolation Prizes (10)	₹1000/-	₹1000/-	₹1000/-

* 5 for Urban Students & 5 for Rural Students

■ Certificates to all the participants

Event Head : **Dr. Vasanti C. Iyer**, Principal

Mrs. Hardeep R. Bombra, Vice Principal

In Technical
Support with

WHITE
IIT JEE & NEET ACADEMIA
Hyderabad, Telangana

ONLINE REGISTRATION AT
www.dhbsonicollege.com

PRINCIPAL
DHB SONI COLLEGE
SOLAPUR

Neelima

Proudly Presents

3rd

Annual Talent Search Exam



**DHB SONI COLLEGE
TALENT SEARCH 2019**

EVENT DATE
1st DECEMBER 2019

VENUE
DHB SONI COLLEGE,
SOLAPUR

Event Only For
VIII, IX & X Students

Registration Fee
Rs. 50 per Student

Register Before
25th November 2019

Objective Based Exam

05/2B, Vaishnavi Nagar, Saiful, Vijapur Road, Solapur-413004 Phone : 0217-2341366, 2301366. Email : sonitalentsearch@gmail.com, website : www.dhbsonicollege.com

CONTACT : Dr. Katap Kavita : 9890035665, Mr. Peerzade Abdul : 7083178770, Mr. Sahota Santok Singh : 9158880449, Mr. Chandak Mahesh : 9158966166, Mr. Kantikar Prakash : 808742069



Maheshwari Vidya Pracharak Mandal, Pune's
**Deshbhakt Harinarayan Bankatlal
SONI COLLEGE,
SOLAPUR**
(Hindi Linguistic Minority Institute)

Udise No. : 27301300503
Index No. J 24.09.104

105 / 2B, Saiful, Vijapur Road, Solapur - 413 008.
Phone : 0217 - 2341366, 2301366
E - mail : sonicollege@gmail.com • Website : www.dhbsonicollege.com

To,
The Headmaster/Headmistress

**Sub :- Invitation to Participate in "DHB SONI COLLEGE TALENT SEARCH -2019"
-a search for ACADEMIC SCHOLARS on Sunday 1st December 2019**

Sir /Madam,

We are pleased to announce that DHB Soni College, Solapur proudly presents its third DHB SONI COLLEGE TALENT SEARCH 2019-a search for ACADEMIC SCHOLARS in technical support with Whiteboard Pvt. Ltd. Ventures, Hyderabad, Telangana on **Sunday 1st December 2019**.

This is a talent search program at district level created with the objective of recognizing and acknowledging academically talented students from Std. VIII, IX and X. The exam is designed in a manner to test their analytical skills in advance which they will require in future while taking competitive test like CET, CAT, JEE, NEET, CA-CPT etc.

"DHB SONI COLLEGE TALENT SEARCH -2019" - a search for ACADEMIC SCHOLARS comprises objective type questions from Maths, Science, Logic & Reasoning. OMR sheets will be provided for marking answers. The exam is scheduled on **1st December 2019** in college premises between **10 a.m. to 12 Noon, 2 p.m. to 4 p.m.** batch wise.

We also wish to inform you that above initiative is done with no profit motive and the fee charged for above test to students is very nominal and affordable.

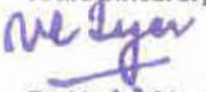
We solicit your kind co-operation in encouraging the students to participate in the "DHB SONI COLLEGE TALENT SEARCH -2019" - a search for ACADEMIC SCHOLARS in large numbers. The details of the exam are enclosed for your perusal. Please fill in and send the registration form attached herewith before **25th November 2019**. Looking forward for your positive participation.

Best regards.

Encl. :-

1. Information leaflet
2. Registration Form
3. Poster
4. Syllabus & Sample questions
5. Sample OMR Sheet


PRINCIPAL
D.H.B. Soni College,
Solapur

Yours Sincerely,

Dr. Vasanti Iyer
Principal



Maheshwari Vidya Pracharak Mandal, Pune's
**Deshbhakt Harinarayan Bankatlal
SONI COLLEGE, SOLAPUR**

(Hindi Linguistic Minority Institute)
105 / 2B, Saiful, Vijapur Road, Solapur - 413 008.
Phone : 0217 - 2341366, 2301366
E-mail : sonicollege@gmail.com • Website : www.dhbsonicollege.com



SAMPLE QUESTION PAPER WITH SYLLABUS

Std : VIII / IX / X	Time : 2 hrs .
Marks : 280	Date : 1 st Dec 2019
Name of the School :	Roll No :

Instruction :

- The question paper consists of three sections.
(General Science 30 Ques. , Maths – 30 Ques. , Logic & Reasoning – 10 Ques.)
- All Questions are multiple choice questions with one single correct answer. Each correct answer carries 4 marks .
- No negative marks.
- Calculators are not allowed.
- Separate page is provided for rough work.

General science :

1. Mark the correct statement
a. Displacement = Distance
b. Displacement \leq Distance
c. Displacement < Distance
d. Displacement \neq Distance
2. The force of attraction between the molecules of water is called:
a. adhesion b. cohesion c. attraction d. absorption
3. The kelvin temperature for 373°C is:
a. 273K b. 298K c. 646K d. 479K

Maths

- i. The simplest form of $\sqrt{\frac{98}{2}}$ is _____
a. $\sqrt{2}$ b. $\sqrt{98}$ c. 7 d. $\sqrt{7}$
2. If $x + 4$ is a factor of the polynomial $x^2 + 3x + m$ the value of 'm' is _____
a. 4 b. -4 c. 3 d. -3
3. Degree of the polynomial $\sqrt{4}$ is _____
a. $\frac{1}{2}$ b. 1 c. 0 d. Does not exist

Logic & Reasoning

1. 21 : 3 :: 574 : ?
a) 23 b) 82 c) 97 d) 113
2. Which letter is seventh to the right of the thirteenth letter from the left end ?
a) S b) T c) U d) V
3. How many combinations of two – digit numbers having 8 can be made from the following numbers ?
8, 5, 2, 1, 7, 6
a) 9 b) 10 c) 11 d) 12

M. S. Y.

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Solapur

D.H.B. SONI COLLEGE , SOLAPUR
TALENT SEARCH EXAM. SYLLABUS 2019 - 20

STD	Subject	STATE BOARD	NCERT
VIII	Science	a) Living World & Classification of microbes	a) Micro-organisms - friend & foe
		b) Cell & Cell Organelles	b) Cell structure & Function
		c) Metal & Non Metals	c) Materials-Metal & Non Metals
		d) Force & Pressure	d) Force & Pressure
		e) Pollution	e) Pollution of Air & Water
	Maths	a) Rational & Irrational Numbers	a) Rational Numbers
		b) Indices & Cube root	b) Exponents & powers; Cube & Cube roots
		c) Equations in one variable	c) Equations in one variable
		d) Quadrilateral : types	d) Understanding quadrilaterals
		e) Factorisation of Algebraic Expressions	e) Algebraic expressions & Identities
IX	Science	a) Law of Motion	a) Force & Laws of Motion
		b) Work & Energy	b) Work & Energy
		c) Measurement of Matter	c) Nature of Matter
		d) Acid Bases & Salts	d) Acid Bases & Salts
		e) Classification of Plants	e) Diversity in Living Organisms
		f) Useful & Harmful Micro	f) Why do we fall ill
	Maths	a) Real Numbers	a) Number System
		b) Polynomials	b) Polynomials
		c) Linear equations in two variables	c) Linear equations in two variables
		d) Parallel Lines	d) Lines & Angles
		e) Triangles	e) Triangles
		f) Quadrilaterals	f) Quadrilaterals
X	Science	a) Effects of Electric Current	a) Electricity
		b) Periodic Classification of Elements	b) Periodic Classification of Elements
		c) Chemical Reaction & Equation	c) Chemical Reaction & Equation
		d) Heredity & Evolution	d) Heredity & Evolution
		e) Life processes in Living Organisms -II	e) How do organisms reproduce ?
		f) Environmental Management	f) Our Environment
	Maths	a) Linear equations in two variables	a) Pair of Linear equations in two variables
		b) Quadratic Equations	b) Quadratic equations
		c) Arithmetic Progression	c) Arithmetic progression
		d) Similarity	d) Triangles
		e) Circle	e) Circle
		f) Co- ordinate Geometry	f) Co- ordinate Geometry

Handwritten signature
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Solapur



D.H.B. SONI COLLEGE , SOLAPUR
DHB SONI COLLEGE TALENT SEARCH -2019
A Search for Academic Scholars
OMR ANSWER SHEET



Name of the student:-	
Name of the school:-	
Std:-	Batch:-
Roll No:-	
Roll No. (in words):-	

Candidate Sign
Invigilator Sign

Physics				
Q.	(a)	(b)	(c)	(d)
1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Chemistry				
Q.	(a)	(b)	(c)	(d)
16	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
17	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
18	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
21	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
22	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
23	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
24	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
25	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
26	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
27	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
28	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
29	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
30	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Maths				
Q.	(a)	(b)	(c)	(d)
31	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
32	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
33	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
34	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
35	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
36	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
37	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
38	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
39	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
40	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
41	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
42	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
43	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
44	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
45	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Biology				
Q.	(a)	(b)	(c)	(d)
46	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
47	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
48	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
49	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
50	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
51	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
52	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
53	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
54	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
55	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
56	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
57	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
58	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
59	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
60	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Logic & Reasoning				
Q.	(a)	(b)	(c)	(d)
61	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
62	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
63	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
64	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
65	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
66	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
67	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
68	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
69	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
70	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

INSTRUCTION FOR FILLING THE SHEET

1. Use only dark HB pencil.
2. Circles should be darkened completely & properly.
3. This sheet should not be folded or crushed.
4. Cutting & erasing on this sheet is not allowed.
5. Do not use any stray marks on the sheet.
6. Do not use marker/white fluid to hide the mark.

Correct Method			
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

(Signature)

PRINCIPAL
D.H.B. Soni College,
Solapur



D.H.B. SONI COLLEGE , SOLAPUR

DHB SONI COLLEGE TALENT SEARCH -2019

A Search for Academic Scholars



Registration Form for Std -VII/IX/X

1	Name of the School	:	_____
2	Complete Address	:	_____
		:	Taluka _____ Dist - _____
		:	E-mail _____ Phone No : _____
3	Medium (English/Marathi)	:	_____
4	Contact Person / Faculty Incharge	:	_____
5	Contact / Mobile No. :	:	_____

Sr.	Name of the Student	Contact Number
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

Me. Jyoti

PRINCIPAL
D H.B. Soni College,
Solapur

Principal Sign. & Seal



Maheshwari Vidya Pracharak Mandal, Pune's
Deshbhakt Harinarayan Bankatlal
Soni College, Solapur

(Hindi Linguistic Minority Institute.
 105/2B, Saiful, Vijapur Road, Solapur – 413004
 Phone : 0217 – 2341366 E-mail : sonicollege@gmail.com
 Website : www.dhbsonicollege.com



DHB SONI COLLEGE TALENT SEARCH – 2019
A SEARCH FOR ACADEMIC SCHOLARS

Date : 01/12/2019
 Batch – I

Question Booklet
 Standard – VIII

Seat No :
 Max. Marks : 280

Instructions for Candidates

1. Please write your Exam. Seat No. clearly. Exam. Seat No. is 6 digit code number.
2. All Questions are Compulsory.
3. This Question paper has 3 sections consisting of total 70 Questions.
 Section I : Mathematics : Q. 1 to Q. 30
 Section II : Science : Q. 31 to Q. 60
 Section III : Logics & Reasoning : Q. 61 to Q. 70
4. Each Question has four options, from which one option is correct.
Correct Method
5. Darken the circles for correct answer in the provided OMR sheet.
6. Each Question carries 4 marks.
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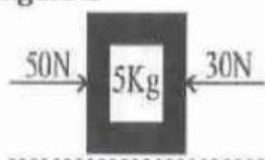
16. Factorize $\frac{a}{b}x^2 + \left(\frac{a}{b} + \frac{c}{d}\right)x + \frac{c}{d}$, where $b \neq 0, d \neq 0$
1. $(x+1)\left(\frac{a}{b}x + \frac{c}{d}\right)$
 2. $(x-1)\left(\frac{a}{b}x - \frac{c}{d}\right)$
 3. $(x+1)\left(\frac{a}{b}x - \frac{c}{d}\right)$
 4. $(x-1)\left(\frac{a}{b}x + \frac{c}{d}\right)$
17. If $x = 2 + 2^{\frac{2}{3}} + 2^{\frac{1}{3}}$ then $x^3 - 6x^2 + 6x - 2$ is equal to
1. 0
 2. 1
 3. 2
 4. -1
18. If $4^{44} + 4^{44} + 4^{44} + 4^{44} = 4^x$, then x is
1. 45
 2. 44
 3. 176
 4. 11
19. If the length of rectangle is thrice the breadth. The area of rectangle is 27m^2 then the length and breadth are
1. 27, 1
 2. 9, 18
 3. 9, 3
 4. 1, 27
20. If $\sqrt{(2x+4)}\sqrt{4x+8} = \sqrt{128}$ then x is
1. 14
 2. 34
 3. -34
 4. -14
21. The digit in the units place for the cube 98 is
1. 1
 2. 2
 3. 4
 4. 8
22. The value of $\sqrt{10 + \sqrt{25 + \sqrt{108 + \sqrt{154 + \sqrt{225}}}}}$
1. 4
 2. 6
 3. 8
 4. 10
23. A father is 7 times as old as his son. Three years ago the father was 13 times as old as his son. What are their present ages?
1. 3, 21
 2. 5, 35
 3. 4, 28
 4. 6, 42
24. Statement I:
If $a < b \Rightarrow a + c < b + c, c > 0$
Statement II:
If $a < b \Rightarrow a - c < b - c, c > 0$
1. Only I is true
 2. Only II is true
 3. Both I & II are true
 4. Neither I nor II
25. The two rational numbers between 2 and 3 are
1. $\frac{5}{2}, \frac{11}{2}$
 2. $\frac{5}{2}, \frac{11}{4}$
 3. $\frac{5}{2}, \frac{9}{2}$
 4. $\frac{9}{4}, \frac{5}{4}$
26. Rational number that does not lie between $\frac{2}{3}$ and $\frac{5}{3}$ is
1. $\frac{7}{3}$
 2. $\frac{11}{4}$
 3. $\frac{6}{7}$
 4. $\frac{12}{7}$
27. The sum of two consecutive multiples of 3 is 51. Then the largest number is
1. 24
 2. 27
 3. 33
 4. 30
28. The value of $\sqrt{2^3 \times 4^3 \times 6^3}$ is
1. $64\sqrt{3}$
 2. 192
 3. $192\sqrt{3}$
 4. $192\sqrt{2}$
29. Choose the quadrilateral in which the diagonals do not intersect at 90°
1. Kite
 2. Parallelogram
 3. Rhombus
 4. Square
30. Choose the quadrilateral which can be constructed if the lengths of diagonals are given
1. Kite
 2. Trapezium
 3. Square
 4. Parallelogram



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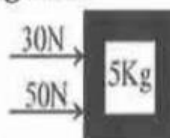
Section II : Science

31. Momentum of a body is
1. Product of mass and velocity
 2. Product of mass and speed
 3. Product of force and velocity
 4. Product of force and speed
32. Momentum of a body indicates
1. Its ability to communicate motion to another body
 2. Its energy
 3. Its power
 4. Its force
33. If the mass of the body is 1 kg. If it is applied by a force of 5 N to change its velocity by 5 m/sec, what is the time of force applied?
1. 1 sec
 2. 2 sec
 3. 3 sec
 4. 4 sec
34. Two bodies A & B, of same masses are moving with velocity 'V' & '2V' respectively. Compare their momentum.
1. 2:1
 2. 3:1
 3. 1:2
 4. 1:3
35. The acceleration of the block in the figure is



1. 16m/s^2 towards left
2. 16m/s^2 towards right
3. 4m/s^2 towards left
4. 4m/s^2 towards right

36. The acceleration of the block in the figure is



1. 16m/s^2 towards left
 2. 16m/s^2 towards right
 3. 4m/s^2 towards left
 4. 4m/s^2 towards right
37. A gravitational force of 19600N acts on a freely falling body if $g = 9.8 \text{ ms}^{-2}$, mass of the body is
1. 1 kg
 2. 20kg
 3. 200 kg
 4. 2000kg
38. A cylindrical pipe contains 10 litres of water. The pressure exerted at the base is 2500Nm^{-2} . If another 10 litres is poured in to the pipe the pressure will be
1. 2500 Nm^{-2}
 2. 7500 Nm^{-2}
 3. 5000 Nm^{-2}
 4. 25000 Nm^{-2}
39. Sodium reacts with water more vigorously than lithium because
1. It has higher atomic weight
 2. It is more electronegative
 3. It is more electropositive
 4. It is a metal
40. A trivalent metal X is manufactured by the process of electrolysis. If it is the most abundant metal in the earth's crust, identify the metal
1. Sodium
 2. Aluminium
 3. Magnesium
 4. Boron
41. Metals are good conductors of electricity, because,
1. They are malleable.
 2. They are ductile.
 3. They have free electrons in Their outermost shell.
 4. They show elasticity and plasticity.

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42. A metal M is present in the soil, plants, sea shells, egg shells. It is also used to remove oxygen from molten state. The metal M is:
1. Ca
 2. Mg
 3. Al
 4. P
43. The solution of ash of magnesium ribbon is:
1. Acidic
 2. Basic
 3. Neutral
 4. All of these
44. Alloys are homogeneous mixtures of a metal with a metal or non-metal. Which among the following alloys contain non-metal as one of its constituents?
1. Amalgam
 2. Brass
 3. Bronze
 4. Steel
45. The metal which produces hydrogen gas on reaction with dilute hydrochloric acid as well as sodium hydroxide solution is:
1. Copper
 2. Aluminium
 3. Iron
 4. Sodium
46. Which of the following statement (S) are true?
- a) Among all the naturally occurring elements, around eighty percent are metals
 - b) Non-metals are more abundant than metals.
 - c) Sodium and potassium are soft like wax.
 - d) Bromine is a reddish brown liquid at room temperature.
1. a, b
 2. a, b, c
 3. c, d
 4. a, b, c, d
47. Which of the following cell organelles are non-membranous and found in both prokaryotic and eukaryotic cells?
1. Lysosome
 2. Vacuoles
 3. Ribosome
 4. Mitochondria
48. Organelles that are surrounded by two membranes are
1. Nucleous and mitochondria
 2. Nucleus and golgi bodies
 3. Nucleolus and lysosomes
 4. Endoplasmic reticulum and Ribosome
49. When a human RBC is placed in a hypotonic environment, it
1. Undergoes shrinking
 2. RBC will swell and finally burst
 3. Is at equilibrium
 4. Experiences decreased turgor pressure
50. Which of the following statement (s) is correct about plasma membrane
1. It allows all substances to pass into and out of cells
 2. It prevents all substances from passing into and out of cell
 3. It is composed mainly of protein bilayer
 4. It is composed mainly of a lipid bilayer
51. Which of the following organisms is considered to be on the borderline of living and non-living?
1. Bacteria
 2. Algae
 3. Virus
 4. Fungi
52. The gas released during fermentation of sugar by yeast cells is
1. Carbon dioxide
 2. Carbon monoxide
 3. hydrogen
 4. oxygen



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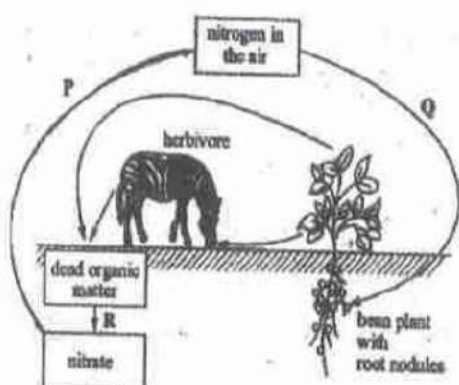
53. Microbes are an important part of the environment because they

1. Break down waste products
2. Cause the water cycle
3. Protect the ozone layer
4. Block global warming

54. The mode of transmission of dengue is

1. Air
2. Contact
3. Water
4. Vector

55. Study the given diagram of the nitrogen cycle.



Which arrow indicates nitrogen fixation and denitrification respectively?

	Nitrogen Fixation	Denitrification
1.	P	Q
2.	P	R
3.	Q	P
4.	Q	R

56. SO_2 is one of the air pollutants. SO_2

1. Is a lung irritant
2. Dissolves in water to form acid rain
3. Both (1) and (2)
4. Neither (1) nor (2)

57. A green house

1. Is an enclosure of glass in which plants are kept to protect them from cold air outside
2. Is that 'body' which allows the short wavelength incoming solar radiation to enter in, but does not allow long wave length outgoing infra-red radiations to escape out
3. Both (1) and (2)
4. Neither (1) nor (2)

58. Which pollution is harmful for 'Tajmahal'?

1. Hydrogen
2. O_2
3. SO_2
4. Chlorine

59. Pollution is not caused by

1. Thermal power plant
2. Automobile
3. Radioactive power plant
4. Hydrolytic power plant

60. Depletion of ozone layer causes

1. Breast cancer
2. Blood cancer
3. Lung cancer
4. Skin cancer



Section III : Logic and Reasoning

61. Which fraction comes next in the

sequence $\frac{1}{2}, \frac{3}{4}, \frac{5}{8}, \frac{7}{16}$

1. $\frac{9}{32}$ 2. $\frac{10}{17}$
3. $\frac{11}{34}$ 4. $\frac{12}{35}$

62. Choose the odd one out from the following

1. parrot 2. Bat
3. sparrow 4. pigeon

63. Choose the number which is different from others

1. 13 2. 23
3. 71 4. 63

64. If + means \times , \times means $-$, \div means $+$ and $-$ means \div , then of the following gives the result of

$$175 - 25 \div 5 + 20 \times 3 + 10?$$

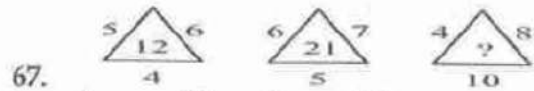
1. 77 2. 160
3. 240 4. 2370

65. If $A > B$, $B > C$ and $C > D$, then which of the following conclusions is definitely wrong?

1. $A > D$ 2. $A > C$
3. $D > A$ 4. $B > D$

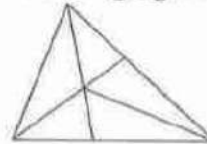
66. Five children take part in a tournament. Each one has to play every other one. How many games must they play?

1. 8 2. 10
3. 24 4. 30



1. 22 2. 30
3. 32 4. None of these

68. How many triangles are there in the following figure?



1. 6 2. 10
3. 11 4. 12

69. Choose the set of numbers which is like the given set: (48, 24, 12)

1. (44, 22, 10)
2. (46, 22, 11)
3. (40, 20, 10)
4. (42, 20, 10)

70. $16 : 56 :: 32 : ?$

1. 96 2. 112
3. 118 4. 128



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DHB SONI COLLEGE TALENT SEARCH – 2019
A SEARCH FOR ACADEMIC SCHOLARS

Date : 01/12/2019
Batch – I

Question Booklet
Standard – IX

Seat No :
Max. Marks : 280

Instructions for Candidates

1. Please write your **Exam. Seat No. clearly**. Exam. Seat No. is **6 digit code number**.
2. All Questions are Compulsory.
3. This Question paper has 3 sections consisting of total 70 Questions.
Section I : Mathematics : Q. 1 to Q. 30
Section II : Science : Q. 31 to Q. 60
Section III : Logics & Reasoning : Q. 61 to Q. 70
4. Each Question has four options, from which one option is correct.
Correct Method
5. **Darken** the circles for correct answer in the provided **OMR** sheet.
6. Each Question carries **4 marks**.
7. Use only dark **HB Pencil /Pen**.
8. There is **no negative marking** for incorrect answers.
9. Rough work is to be done at the end of the booklet.
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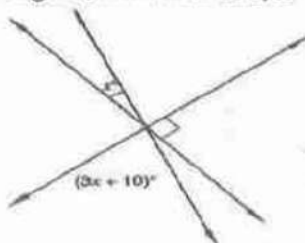

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15. If $3x - 5y = 5$ and $\frac{x}{x+y} = \frac{5}{7}$ then the

value $x + y$ is

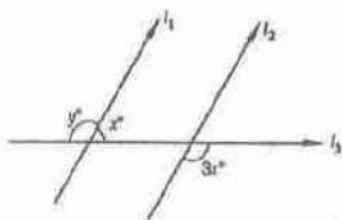
1. -7 2. 7
3. 3 4. -3

16. In the given figure, the value of x , is



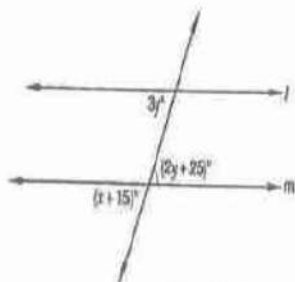
1. 12 2. 15
3. 20 4. 30

17. In the given figure, if $l_1 \parallel l_2$, what is the value of y ?



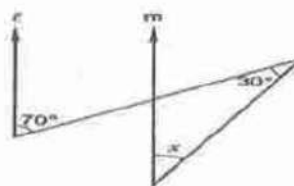
1. 100 2. 120
3. 135 4. 150

18. In the given figure, if $l \parallel m$, what is the value of x ?



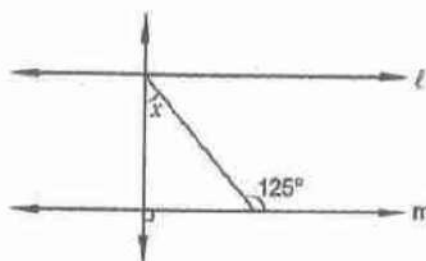
1. 60 2. 50
3. 45 4. 30

19. In the given figure, if lines l and m are parallel lines, then $x =$



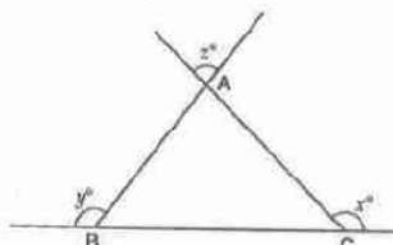
1. 70° 2. 100°
3. 40° 4. 30°

20. In the given figure, if lines l and m are parallel, then the value of x , is



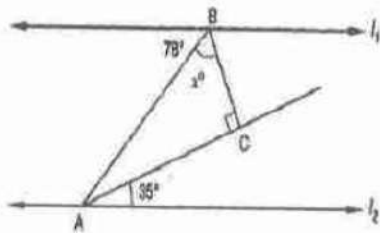
1. 35° 2. 55°
3. 65° 4. 75°

21. In the given figure, what is z in terms of x and y ?



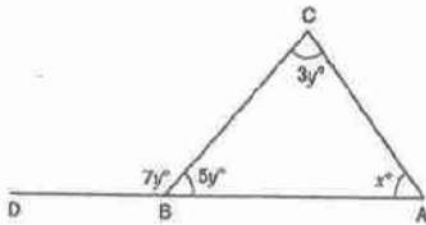
1. $x + y + 180$ 2. $x + y - 180$
3. $180^\circ - (x + y)$ 4. $x + y + 360^\circ$

22. In the given figure, for which value of x is $l_1 \parallel l_2$?



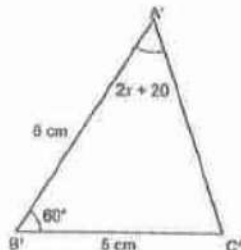
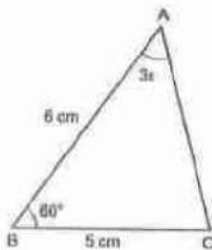
- 1. 37
- 2. 43
- 3. 45
- 4. 47

23. In the given figure, what is the value of x ?



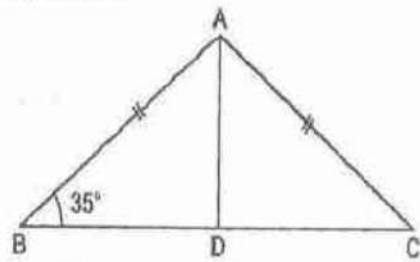
- 1. 35
- 2. 45
- 3. 50
- 4. 60

24. In the given figure, the measure of $\angle B'A'C'$ is



- 1. 50°
- 2. 60°
- 3. 70°
- 4. 80°

25. ABC is an isosceles triangle such that $AB = AC$ and AD is the median to base BC. Then, $\angle BAD =$



- 1. 55°
- 2. 70°
- 3. 35°
- 4. 110°

26. The two diagonals are equal in a
 1. Parallelogram 2. Rhombus
 3. Rectangle 4. Trapezium

27. The figure formed by joining the mid-points of the adjacent sides of a rectangle is a

- 1. square 2. rhombus
- 3. trapezium 4. none of these

28. ABCD is a parallelogram in which diagonal AC bisects $\angle BAD$. If

$\angle BAC = 35^\circ$ then $\angle ABC =$

- 1. 70°
- 2. 110°
- 3. 90°
- 4. 120°

29. In a rhombus ABCD, if

$\angle ACB = 40^\circ$, then $\angle ADB =$

- 1. 70°
- 2. 45°
- 3. 50°
- 4. 60°

30. Diagonals of a quadrilateral ABCD bisect each other. If $\angle A = 45^\circ$, then $\angle B =$

- 1. 115°
- 2. 120°
- 3. 125°
- 4. 135°

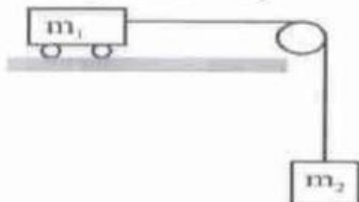
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Section II : Science

31. If a bullet fired from the gun, then
1. Momentum of bullet is greater than that of gun
 2. Momentum of bullet is equal to that of gun
 3. Kinetic energy of gun is greater than that of bullet
 4. Kinetic energy of gun is equal to that of bullet
32. As soon as the artificial satellite enters the atmosphere it begins to burn due to
1. Gravitational force
 2. Temperature
 3. Forces inside the satellite
 4. Frictional force

33. Find the acceleration of blocks when $m_1 = 6\text{kg}$ and $m_2 = 4\text{kg}$



1. $\frac{g}{5}$
2. $\frac{2g}{5}$
3. $\frac{3g}{5}$
4. $\frac{5g}{7}$

34. A space craft of mass 2000 kg moving with a velocity of 600 m/s suddenly explodes into two pieces. One piece of mass 500 kg is left stationary. The velocity of the other part must be

- 1) 600 m/s
2. 800 m/s
3. 1500 m/s
4. 1000 m/s

35. The momentum of a 500 gram body is 10 kg - m/s. Its velocity is ---- m/s

1. 5000
2. 50
3. 10
4. 20

36. Two positive charges are certain distance apart. The energy stored in the system is

1. P.E.
2. K.E.
3. Both P.E. and K.E.
4. None of these

37. When a force 30 N displaces a body through 12 m in its direction, the work done is

1. 30 J
2. 36 J
3. 300 J
4. 360 J

38. A force of 25N displaces a body through a distance of 4 metre. The work done on the body is ___ Joule .

1. 0
2. $\frac{25}{4}$
3. 25×4
4. $\frac{4}{25}$

39. A 10kg ball is dropped from a height of 10m. Find the speed just before it reaches the ground.

1. 12m/s
2. 16m/s
3. 14m/s
4. 18m/s

40. The work done by a person in lifting a load of 20 kg from the ground and placing it 2m high on a table is ___ J.

1. 49
2. 98
3. 196
4. 392

41. A gas can be best liquefied :

1. By increasing the temperature
2. By lowering the pressure
3. By increasing the pressure and reducing the temperature
4. None of the above

42. The rate of diffusion decreases:

1. With increase in temperature
2. With increase in kinetic energy of molecules
3. With decrease in temperature
4. No effect of temperature



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43. The density of water is maximum at
 1. 0°C 2. 277K
 3. 100°C 4. 283K
44. Which of these is defined as standard pressure?
 1. 14.7 psi 2. 1 atm
 3. 760 torr 4. All of these
45. Which of the following has more heat content?
 1. 10g of ice at 0°C
 2. 10g of water at 0°C
 3. Both have same heat content
 4. Their heat content cannot be compared
46. Which of the following is not an acidic salt?
 1. CuSO_4 2. Na_2CO_3
 3. ZnSO_4 4. NH_4NO_3
47. Basic salts are formed by neutralization of:
 1. Strong acid and strong base
 2. Strong acid and weak base
 3. Weak acid and weak base
 4. Strong base and weak acid
48. Which of the following is the weakest base?
 1. NaOH 2. $\text{Ca}(\text{OH})_2$
 3. NH_4OH 4. KOH
49. Indicator which is a mixture of organic dyes that gives definite colour changes over a wide range of pH is:
 1. Acid base indicator
 2. Universal indicator
 3. Neutral indicator
 4. Litmus indicator
50. Which of the following is not a hydra acid?
 1. HCl 2. H_2S
 3. H_2SO_3 4. HBr
51. B.C.G. vaccine is used against.
 1. TB 2. leprosy
 3. Food poisoning 4. None of these
52. Active immunity is obtained by
 1. Antibodies
 2. Weakened germs infection
 3. Natural resistance
 4. None of these
53. The AIDS test is known as
 1. ELISA 2. Australian Antigen
 3. WIDAL Test 4. None of these
54. Which one of the following is not important for individual health?
 1. Hygiene 2. Regular Exercise
 3. Nutritional food
 4. Living in a large and well furnished house
55. Trypanosoma, Leishmania and Plasmodium are the example of
 1. Virus 2. Bacteria
 3. Protozoa 4. worm
56. Which one of the following phyla has maximum species?
 1. Annelida 2. Mollusca
 3. Arthropoda 4. Echinodermata
57. Bryophytes are characterized by
 1. Multicellular jacketed archegonia.
 2. Thalloid body
 3. Dominant gametophyte and partial parasitic sporophyte.
 4. All above
58. Which of the following categories includes all other in the list?
 1. Arthropod 2. Insect
 3. Invertebrate 4. Echinoderm
59. Generally speaking, fungi are
 1. Saprophytes 2. Autotrophs
 3. Prokaryotic
 4. All of these are correct
60. Basic taxonomic category is
 1. Population 2. Species
 3. Variety 4. Breed



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Section III : LOGIC AND REASONING

61. 4, 9, 25, ?, 121, 169, 289, 361

1. 49 2. 64 3. 81 4. 87

62. Choose the odd one:

1. Book 2. Paper
3. Pencil 4. Pen

63. Choose the number which is different from others

1. 144 2. 625 3. 196 4. 78

64. If \times stands for $-$, \div stands for $+$, $+$ stands for \div and $-$ stands for \times , which one of the following equations is correct?

1. $15 - 5 \div 5 \times 20 + 10 = 6$
2. $8 \div 10 - 3 + 5 \times 6 = 8$
3. $6 \times 2 + 3 \div 12 - 3 = 15$
4. $3 \div 7 - 5 \times 10 + 3 = 10$

65. If $A + D = B + C$, $A + E = C + D$, $2C < A + E$ and $2A > B + D$, then

1. $A > B > C > D > E$
2. $B > A > D > C > E$
3. $D > B > C > A > E$
4. $B > C > D > E > A$

66. There are some benches in a class-room.

If 4 students sit on each bench, then 3 benches are left unoccupied. However, if 3 students sit on each bench, 3 students are left standing. How many students are there in the class?

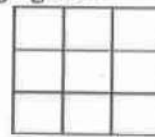
1. 36 2. 48
3. 56 4. 64

67.

$$2 \begin{array}{c} 8 \\ \textcircled{36} \\ 6 \end{array} 6 \quad 2 \begin{array}{c} 7 \\ \textcircled{46} \\ 8 \end{array} 5 \quad 2 \begin{array}{c} 7 \\ \textcircled{?} \\ 10 \end{array} 6$$

1. 42 2. 58
3. 48 4. 50

68. Count the number of squares in the following figure :

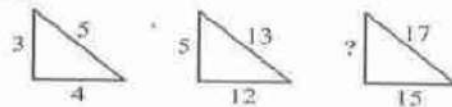


1. 18 2. 14
3. 10 4. 9

69. Choose the set which is similar and in series of (363, 489, 579)

1. 562 2. 471
3. 382 4. 281

70.



1. 2 2. 6
3. 8 4. 64



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**DHB SONI COLLEGE TALENT SEARCH – 2019
A SEARCH FOR ACADEMIC SCHOLARS**

Date : 01/12/2019

Question Booklet

Seat No :

Batch – I

Standard – X

Max. Marks : 280

Instructions for Candidates

1. Please write your **Exam. Seat No.** clearly. Exam. Seat No. is **6 digit code number.**
2. All Questions are Compulsory.
3. This Question paper has 3 sections consisting of total 70 Questions.
 Section I : Mathematics : Q. 1 to Q. 30
 Section II : Science : Q. 31 to Q. 60
 Section III : Logics & Reasoning : Q. 61 to Q. 70
4. Each Question has four options, from which one option is correct.
Correct Method
5. **Darken** the circles for correct answer in the provided **OMR** sheet.
6. Each Question carries **4 marks.**
7. Use only dark **HB Pencil /Pen .**
8. There is **no negative marking** for incorrect answers.
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10. College decision is **final & binding** in regard to any conflicts.
11. All disputes are subject to Solapur jurisdiction .



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IX paper



Section I : Maths

- The sum of the digits of a two digit number is 8 and the difference between the number and that formed by reversing the digit is 18. Find the number?
 - 57
 - 62
 - 53
 - 35
- I am three times as old as my son. Five years later, I shall be two and half times as old as my son. How old am I?
 - 15
 - 45
 - 54
 - 30
- The taxi charges in a city comprise of a fixed charge together with the charge for the distance covered. For a journey of 10km the charged paid is Rs. 75 and for a journey of 15 km the charge paid is Rs. 110. What will a person have to pay for travelling a distance of 25 km?
 - 175
 - 180
 - 170
 - 185
- If the system of equations $2x + 3y = 5$, $4x + ky = 10$ has infinitely many solutions, then $k =$
 - 1
 - $\frac{1}{2}$
 - 3
 - 6
- Aruna has only Rs. 1 and Rs. 2 coins with her. If the total number of coins that she has is 50 and the amount of money with her is Rs. 75, then the number of Rs. 1 and Rs. 2 coins are, respectively.
 - 35 and 15
 - 35 and 20
 - 15 and 35
 - 25 and 25
- Solve the quadratic equation by factorization $x^2 + 2\sqrt{2}x - 6 = 0$
 - $3\sqrt{2}$ or $\sqrt{2}x$
 - $3\sqrt{2}$ or $-\sqrt{2}$
 - $-3\sqrt{2}$ or $-\sqrt{2}$
 - $-3\sqrt{2}$ or $\sqrt{2}$
- Write the discriminant of $\sqrt{3}x^2 - 2\sqrt{2}x - 2\sqrt{3} = 0$
 - 16
 - 16
 - 32
 - 32
- Find the values of 'k' of given equation has real and equal roots. $(k + 1)x^2 - 2(k - 1)x + 1 = 0$
 - $k = 0, 3$
 - $k = 0, -3$
 - $k = 0, 2$
 - $k = 0, -2$
- Find two consecutive odd positive integers, sum of whose squares is 290.
 - 11 and 13
 - 11 and 13
 - 11 and -13
 - 11 and 12
- A two digit number is four times the sum and three times the product of its digits. Find the number.
 - 42
 - 24
 - 36
 - 63
- If the distance between the points $(4, p)$ and $(1, 0)$ is '5', then $p =$
 - ± 4
 - 4
 - 4
 - 0



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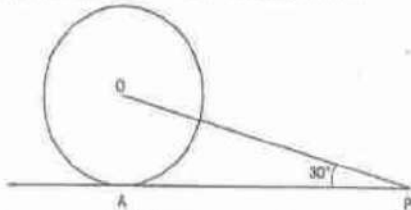
12. If A (2, 2), B(-4, -4) and C(5, -8) are the vertices of a triangle, then the length of the median through vertex 'C' is
1. $\sqrt{65}$
 2. $\sqrt{117}$
 3. $\sqrt{85}$
 4. $\sqrt{113}$
13. If the points (k, 2k), (3k, 3k) and (3, 1) are collinear, then k =
1. $\frac{1}{3}$
 2. $-\frac{1}{3}$
 3. $\frac{2}{3}$
 4. $-\frac{2}{3}$
14. If the centroid of the triangle formed by (7, x), (y, -6) and (9, 10) is at (6, 3) then (x, y) =
1. (2, 5)
 2. (5, 4)
 3. (-5, -2)
 4. (5, 2)
15. The coordinates of the points P dividing the line segment joining the points A(1, 3) and B(4, 6) in the ratio 2 : 1 are
1. (2, 4)
 2. (3, 5)
 3. (4, 2)
 4. (5, 3)
16. If the 8th term of an A.P is 31 and the 15th term is 16 more than the 11th term find the A.P.
1. 3, 8, 13, 18,
 2. 3, 6, 9, 12, 15
 3. 3, 7, 11, 15, 19,
 4. 2, 6, 10, 14, 18
17. Which term of the A. P. 3, 15, 27, 39 will be 132 more than its 54th term?
1. 55
 2. 65
 3. 75
 4. 45
18. Find the sum of 20 terms of the A.P. 1, 4, 7, 10
1. 610
 2. 950
 3. 509
 4. 590
19. Find the sum of first 30 terms of an A.P. whose second term is 2 and seventh term is 22.
1. 1800
 2. 1580
 3. 1680
 4. 1820
20. Find the sum of all natural numbers between 250 and 1000 which are exactly divisible by '3'
1. 156300
 2. 156375
 3. 165575
 4. 165735
21. Two poles of height 6m and 11 m stand vertically upright on a plane ground. If the distance between their foot is 12m, the distance between their tops is
1. 12 m
 2. 14m
 3. 13m
 4. 11m
22. In a ΔABC , AD is the bisector of $\angle BAC$. If AB = 6 cm, AC = 5 cm and BD = 3 cm, then DC =
1. 11.3 cm
 2. 2.5cm
 3. 3.5 cm
 4. None of these
23. $\Delta ABC \sim \Delta DEF$, ar (ΔABC) = 9cm^2 , ar (ΔDEF) = 16cm^2 . If BC = 2.1 cm, then the measure of EF is
1. 2.8 cm
 2. 4.2cm
 3. 2.5 cm
 4. 4.1cm
24. ΔABC is an isosceles triangle in which $\angle C = 90^\circ$. If AC = 6 cm, then AB =
1. $6\sqrt{2}$ cm
 2. 6cm
 3. $2\sqrt{6}$ cm
 4. $4\sqrt{2}$ cm
25. A chord of a circle of radius 10 cm subtends a right angle at the centre. The length of the chord (in cm) is
1. $5\sqrt{2}$
 2. $10\sqrt{2}$
 3. $\frac{5}{\sqrt{2}}$
 4. $10\sqrt{3}$



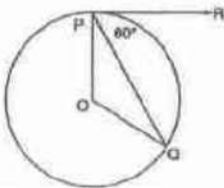
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26. From a point Q, the length of the tangent to a circle is 24 cm and the distance of Q from the centre is 25cm. The radius of the circle is
1. 7cm
 2. 12cm
 3. 15 cm
 4. 24.5cm

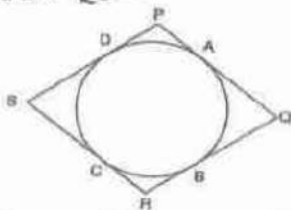
27. In Fig. AP is tangent to the circle with centre O such that $OP = 4$ cm and $\angle OPA = 30^\circ$. Then, $AP =$



1. $2\sqrt{2}$ cm
 2. 2 cm
 3. $2\sqrt{3}$ cm
 4. $3\sqrt{2}$ cm
28. In Fig. If PR is tangent to the circle at P and O is the centre of the circle, then $\angle POQ =$

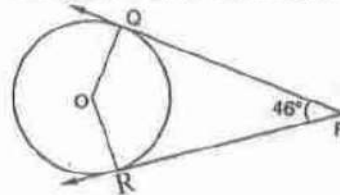


1. 110°
 2. 100°
 3. 120°
 4. 90°
29. In Fig. If quadrilateral PQRS circumscribes a circle, then $PD + QB =$



1. PQ
2. QR
3. PR
4. PS

30. In fig. PQ and PR are two tangents to a circle with centre O. If $\angle QPR = 46^\circ$, then $\angle QOR$ equals



1. 67°
2. 134°
3. 44°
4. 46°

Section II : Science

31. There are two wires of the same length and of the same material and radii r and $2r$. The ratio of their specific resistance is
1. 1:2
 2. 1:1
 3. 1:4
 4. 4:1
32. The Resistance $4R, 16R, 64R, \dots, \infty$ are connected in series, their resultant will be
1. 0
 2. ∞
 3. $\frac{4}{3}R$
 4. $\frac{3}{4}R$
33. Resistance $R, 2R, 4R, 8R, \dots, \infty$ are connected in parallel. Their resultant resistance will be
1. R
 2. $R/2$
 3. 0
 4. ∞
34. If a charge of 1.6×10^{-19} coulomb flows per second through any cross section of any conductor, the current constitute will be
1. $2.56 \times 10^{-19}A$
 2. $6.25 \times 10^{-19}A$
 3. $1.6 \times 10^{-19}A$
 4. $3.2 \times 10^{-19}A$

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35. If V , i , R represent the potential, current and resistance, then the heat developed in a given time t is
1. Vit
 2. $I^2 Rt$
 3. $\frac{V^2}{R}$
 4. All the above
36. The direction of magnetic field produced by linear current by conductor is given by
1. Right hand thumb rule
 2. Fleming's left hand rule
 3. Joule's law
 4. Amperes law
37. A cell is a combination of
1. electrode and electrolyte
 2. electrons and protons
 3. Batteries
 4. Resistors
38. Which of the following is not correct
1. $R_s = R_1 + R_2 + R_3 + \dots$
 2. $V = \frac{W}{q}$
 3. $V = iR$
 4. $i = q + t$
39. If work done on a charge $5C$ is $50J$, then applied potential is ----- volt.
1. 5
 2. 10
 3. 15
 4. 20
40. The no. of electron passing through a heater wire in one minute, if it carries a current of 8 ampere, will be
1. 2×10^{20}
 2. 2×10^{21}
 3. 3×10^{20}
 4. 3×10^{21}
41. A metal which reacts reversibly with steam is
1. Copper
 2. Lead
 3. Iron
 4. Zinc
42. A metallic nitrate on heating gives oxygen as the only gaseous product is
1. Zinc nitrate
 2. Copper nitrate
 3. Silver nitrate
 4. Sodium nitrate
43. In the decomposition of lead (II) nitrate to give lead (II) oxide, nitrogen dioxide and oxygen gas, the coefficient of nitrogen dioxide is:
1. 1
 2. 2
 3. 3
 4. 4
44. In exothermic reaction, the reactants
1. Have less energy than the products formed
 2. Have more energy than the products formed
 3. Are at lower temperature than products
 4. Have equal energy as products
45. $4M + O_2 \rightarrow 2M_2O$, in this reaction M is:
1. Reduced
 2. Oxidized
 3. Both a and b
 4. Neither a and b
46. The correct order of electron gain enthalpy with negative sign for F , Cl , Br and I respectively is:
1. $I > Br > Cl > F$
 2. $F > Cl > Br > I$
 3. $Cl > F > Br > I$
 4. $Br > Cl > I > F$
47. Identify the least stable ion among the following:
1. Li^-
 2. Be^-
 3. B^-
 4. C^-



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48. Which of the following represents most electropositive element?

1. $[Ne]3s^1$ 2. $[He]2s^2$
3. $[Xe]6s^1$ 4. $[Xe]6s^2$

49. The increasing order of ionic radii of the given isoelectronic species is:

1. $S^{2-} < Cl^- < Ca^{2+} < K^+$
2. $Ca^{2+} < K^+ < Cl^- < S^{2-}$
3. $K^+ < S^{2-} < Ca^{2+} < Cl^-$
4. $Cl^- < Ca^{2+} < K^+ < S^{2-}$

50. Gallium is a

1. 14th group element
2. 13th group element
3. 15th group element
4. 16th group element

51. Which of the following does not belong to the male reproductive system?

1. Prostate gland
2. Fallopian tubes
3. Seminal vesicle
4. Bulbourethral glands

52. The given diagram show the human female reproductive system. What will happen if a women under goes tubal ligation as shown in diagram?

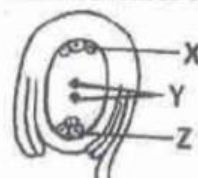


1. No ovum is released from ovaries
2. The sperms cannot enter the vagina
3. The sperms cannot fertilise the ovum
4. No progesterone and oestrogen are produced by ovaries

53. Which of the following is paired wrongly with respect to the fruit part and the structure it develops previously from a flower?

	Part of fruit	Part of flower
1.	Fruit	Ovary
2.	Seed coat	Ovule
3.	Pericarp	Ovarian wall
4.	Embryo	zygote

54. Diagram show the formation of embryo sac in the ovule. What are the structures labelled X, Y and Z?



Sr. N o.	X	Y	Z
1.	Antipodal cells	Polar nuclei	Synergids
2.	Polar nuclei	Synergids	Antipodal cells
3.	Synergids	Polar nuclei	Antipodal cells
4.	Antipodal cells	Synergids	Polar

55. Which of the following is dominant character according to Mendel?

1. Dwarf plant and yellow fruit
2. Terminal fruit and wrinkled seed
3. White testa and yellow pericarp
4. Green coloured pod and rounded seed

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56. Which of these defines the term evolution?
1. Fossils are old
 2. Life began in sea
 3. Living things constantly change
 4. Life began on land
57. Classification of species is done on the basis of
1. Cell design - nucleated or non - nucleated
 2. Unicellular or multi - cellular
 3. Specialisation of cell types and tissues - autotrophs or heterotrophs
 4. All of the above
58. In an aquatic ecosystem, the pyramid of biomass is
1. Upright
 2. Inverted
 3. Partly inverted
 4. None of the above
59. Carbon monoxide is a pollutant because
1. It reacts with O_2
 2. It inhibits glycolysis
 3. Reacts with hemoglobin
 4. Makes nervous system inactive
60. Flow of materials between organisms and their environment is called
1. Cycling of materials
 2. Mineral circulation
 3. Biogeochemical cycles
 4. Water cycle

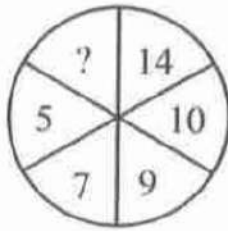
Section III :- Logic & Reasoning

61. 240, ?, 120, 40, 10, 2
1. 180
 2. 240
 3. 420
 4. 480
62. Choose the odd one
1. Guitar
 2. Sitar
 3. Flute
 4. Veena
63. Choose the number which is different from others
1. 21
 2. 36
 3. 49
 4. 56
64. It being given that : > denotes +, < denotes -, + denotes ×, - denotes =, = denotes 'less than' and × denotes 'greater than', find which of the following is a correct statement.
1. $3 + 2 > 4 = 9 + 3 < 2$
 2. $3 > 2 > 4 = 18 + 3 < 1$
 3. $3 > 2 < 4 \times 8 + 4 < 2$
 4. $3 + 2 < 4 \times 9 + 3 < 3$
65. If $A + B > C + D$, $B + E = 2C$ and $C + D > B + E$, it necessarily follows that
1. $A + B > 2E$
 2. $A + B > 2C$
 3. $A > C$
 4. $A + B > 2D$
66. In an examination, a student scores 4 marks for every correct answer and loses 1 mark for every wrong answer. If the attempts in all 60 questions and secures 130 marks, the number of question he attempts correctly, is
1. 35
 2. 38
 3. 40
 4. 42



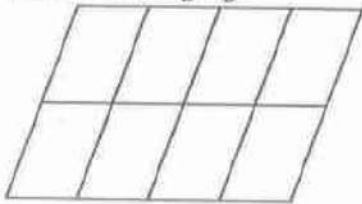
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67. Find the missing number



1. 2 2. 3
3. 4 4. 18

68. How many quadrilateral are there in the following fig.



1. 20 2. 24
3. 28 4. 30
69. If $12 : 144$ then
1. $22 : 464$ 2. $20 : 400$
3. $15 : 135$ 4. $10 : 140$

70. Missing Character



1. 6 2. 9
3. 12 4. 18

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DHB SONI COLLEGE TALENT SEARCH – 2019 A SEARCH FOR ACADEMIC SCHOLARS

Date : 01/12/2019
Batch – II

Question Booklet
Standard – VIII

Seat No :
Max. Marks : 280

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Section I : Maths

- A father is 7 times as old as his son. Three years ago the father was 13 times as old as his son. What are their present ages?
 - 1, 21
 - 5, 35
 - 4, 28
 - 6, 42
- If $x = 2 + 2^{\frac{2}{3}} + 2^{\frac{1}{3}}$ then $x^3 - 6x^2 + 6x - 2$ is equal to
 - 0
 - 1
 - 2
 - 1
- The two rational numbers between 2 and 3 are
 - $\frac{5}{2}, \frac{11}{2}$
 - $\frac{5}{2}, \frac{11}{4}$
 - $\frac{5}{2}, \frac{9}{2}$
 - $\frac{9}{4}, \frac{5}{4}$
- The value of $\sqrt{2^3 \times 4^3 \times 6^3}$ is
 - $64\sqrt{3}$
 - 192
 - $192\sqrt{3}$
 - $192\sqrt{2}$
- If the length of rectangle is thrice the breadth. The area of rectangle is $27m^2$ then the length and breadth are
 - 27, 1
 - 9, 18
 - 9, 3
 - 1, 27
- Choose the quadrilateral which can be constructed if the lengths of diagonals are given
 - Kite
 - Trapezium
 - Square
 - Parallelogram
- The sum of two consecutive multiples of 3 is 51. Then the largest number is
 - 24
 - 27
 - 33
 - 30
- Choose the quadrilateral in which the diagonals do not intersect at 90°
 - Kite
 - Parallelogram
 - Rhombus
 - Square
- The digit in the units place for the cube 98 is
 - 1
 - 2
 - 4
 - 8
- Rational number that does not lie between $\frac{2}{3}$ and $\frac{5}{3}$ is
 - $\frac{7}{6}$
 - $\frac{11}{12}$
 - $\frac{7}{8}$
 - $\frac{7}{4}$
- If $\sqrt[2x+4]{4x+8} = \sqrt[6]{128}$ then x is
 - 14
 - 34
 - 34
 - 14
- The value of

$$\sqrt{10 + \sqrt{25 + \sqrt{108 + \sqrt{154 + \sqrt{225}}}}}$$
 - 4
 - 6
 - 8
 - 10
- Factorize $\frac{a}{b}x^2 + \left(\frac{a}{b} + \frac{c}{d}\right)x + \frac{c}{d}$, where $b \neq 0, d \neq 0$
 - $(x+1)\left(\frac{a}{b}x + \frac{c}{d}\right)$
 - $(x-1)\left(\frac{a}{b}x - \frac{c}{d}\right)$
 - $(x+1)\left(\frac{a}{b}x - \frac{c}{d}\right)$
 - $(x-1)\left(\frac{a}{b}x + \frac{c}{d}\right)$
- If $4^{44} + 4^{44} + 4^{44} + 4^{44} = 4^x$, then x is
 - 45
 - 44
 - 176
 - 11
- Statement I :
If $a < b \Rightarrow a + c < b + c, c > 0$
Statement II :
If $a < b \Rightarrow a - c < b - c, c > 0$
 - Only I is true
 - Only II is true
 - Both I & II are true
 - Neither I nor II

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16. If we subtract one from Ramanujam's number then the cube root of the resulting difference is -----

1. A prime number
2. multiple of 4
3. A factor of 100
4. 8

17. Find the value of

$$\sqrt{41 - \sqrt{21 + \sqrt{19 - \sqrt{9}}}}$$

1. 5
2. 6
3. 8
4. 36

18. $\frac{1}{1+x^{b-a}+x^{c-a}} + \frac{1}{1+x^{a-b}+x^{c-b}} + \frac{1}{1+x^{b-c}+x^{a-c}} =$

1. $\frac{1}{2}$
2. 2
3. 1
4. 0

19. If $\frac{6x+3}{2} = \frac{2x-5}{5}$ then $\frac{1}{1+x}$ is

1. $\frac{1}{25}$
2. $\frac{1}{26}$
3. 25
4. 26

20. If ABCD is a rhombus with $\angle ABC = 64^\circ$ then $\angle ACD$ will be

1. 64°
2. 116°
3. 26°
4. 58°

21. If $\sqrt[3]{11x+9} = 4$, then the value of $\sqrt{3x+1} =$

1. 2
2. 4
3. $\sqrt{10}$
4. 8

22. $\frac{3x}{4} + \frac{x}{6} = 22$, then $\frac{2x-3}{4x+9} =$

1. 24
2. $\frac{9}{21}$
3. $\frac{-3}{7}$
4. $\frac{5}{20}$

23. If ABCD is a rhombus with $\angle DAC = 45^\circ$, then ABCD is a

1. rectangle
2. Square
3. kite
4. none of these

24. The factor of $\sqrt{3}x^2 + 11x + 6\sqrt{3}$ are

1. $\sqrt{3}x^2 + 11 + 6\sqrt{3}$
2. $(x - 3\sqrt{3})(\sqrt{3} - 2)$
3. $(x + 3\sqrt{3})(\sqrt{3} - 2)$
4. $(x + 3\sqrt{3})(\sqrt{3}x + 2)$

25. The value of $\{64 \times (2744)\}^{\frac{1}{3}}$ is

1. 56
2. 81
3. 65
4. 64

26. Two numbers are such that one number is 52 more than the other and their average is 45. Then both are

1. Prime numbers
2. One is prime and the other is composite
3. Composite numbers
4. cannot be determined

27. Number of measurements required to construct a quadrilateral is -----

1. Least composite number
2. least odd prime number
3. sum of first two prime numbers
4. neither prime nor composite number

28. Arrange $6\sqrt{2}, 2\sqrt{6}, \sqrt{12}, 4\sqrt{3}$ in ascending order

1. $6\sqrt{2} < \sqrt{12} < 4\sqrt{3} < 2\sqrt{6}$
2. $\sqrt{12} < 6\sqrt{12} < 4\sqrt{3} < 2\sqrt{6}$
3. $\sqrt{12} < 2\sqrt{6} < 4\sqrt{3} < 6\sqrt{2}$
4. $6\sqrt{2} < 4\sqrt{3} < 2\sqrt{6} < \sqrt{12}$

29. How many numbers in the list are irrationals $\sqrt{3}, \pi, e^{\frac{1}{3}}, 0, \sqrt[5]{2}, \frac{22}{7}, \sqrt{36}$?

1. 3
2. 4
3. 5
4. 6

30. Find the value of

$$[1 - \{1 - (1 - x^2)^{-1}\}^{-1}]^{1/2}$$

When $x = 0.2$?

1. 4
2. 8
3. $\frac{1}{5}$
4. 5



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Solapur

Section II : Science

31. The metal which produces hydrogen gas on reaction with dilute hydrochloric acid as well as sodium hydroxide solution is:
1. Copper
 2. Aluminium
 3. Iron
 4. Sodium
32. A metal M is present in the soil, plants, sea shells, egg shells. It is also used to remove oxygen from molten state. The metal M is:
1. Ca
 2. Mg
 3. Al
 4. P
33. Which of the following statement (S) are true?
- a) Among all the naturally occurring elements, around eighty percent are metals
 - b) Non-metals are more abundant than metals.
 - c) Sodium and potassium are soft like wax.
 - d) Bromine is a reddish brown liquid at room temperature.
1. a, b
 2. a, b, c
 3. c, d
 4. a, b, c, d
34. Alloys are homogeneous mixtures of a metal with a metal or non-metal. Which among the following alloys contain non-metal as one of its constituents?
1. Amalgam
 2. Brass
 3. Bronze
 4. Steel
35. The solution of ash of magnesium ribbon is:
1. Acidic
 2. Basic
 3. Neutral
 4. All of these
36. A trivalent metal X is manufactured by the process of electrolysis. If it is the most abundant metal in the earth's crust, identify the metal
1. Sodium
 2. Aluminium
 3. Magnesium
 4. Boron
37. Sodium reacts with water more vigorously than lithium because
1. It has higher atomic weight
 2. It is more electronegative
 3. It is more electropositive
 4. It is a metal
38. Metals are good conductors of electricity, because,
1. They are malleable.
 2. They are ductile.
 3. They have free electrons in their outermost shell.
 4. They show elasticity and plasticity.
39. The gas released during fermentation of sugar by yeast cells is
1. Carbon dioxide
 2. Carbon monoxide
 3. hydrogen
 4. oxygen
40. Organelles that are surrounded by two membranes are
1. Nucleous and mitochondria
 2. Nucleus and golgi bodies
 3. Nucleolus and lysosomes
 4. Endoplasmic reticulum and Ribosome
41. Which of the following cell organelles are non-membranous and found in both prokaryotic and eukaryotic cells?
1. Lysosome
 2. Vacuoles
 3. Ribosome
 4. Mitochondria

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42. Which of the following statement (s) is correct about plasma membrane

1. It allows all substances to pass into and out of cells
2. It prevents all substances from passing into and out of cell
3. It is composed mainly of protein bilayer
4. It is composed mainly of a lipid bilayer

43. When a human RBC is placed in a hypotonic environment, it

1. Undergoes shrinking
2. RBC will swell and finally burst
3. Is at equilibrium
4. Experiences decreased turgor pressure

44. Which of the following organisms is considered to be on the borderline of living and non-living?

1. Bacteria
2. Algae
3. Virus
4. Fungi

45. SO_2 is one of the air pollutants. . SO_2

1. Is a lung irritant
2. Dissolves in water to form acid rain
3. Both (1) and (2)
4. Neither (1) nor (2)

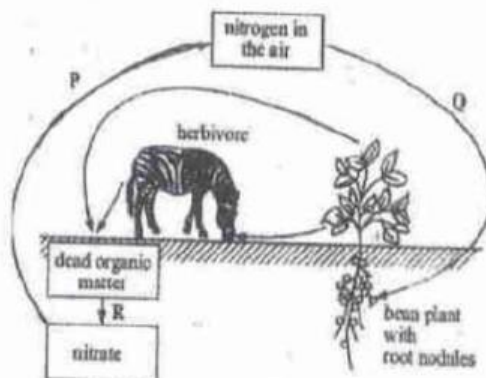
46. A green house

1. Is an enclosure of glass in which plants are kept to protect them from cold air outside
2. Is that 'body' which allows the Short wavelength incoming solar radiation to enter in, but does not allow long wavelength outgoing infra-red radiations to escape out
3. Both (1) and (2)
4. Neither (1) nor (2)

47. Microbes are an important part of the environment because they

1. Break down waste products
2. Cause the water cycle
3. Protect the ozone layer
4. Block global warming

48. Study the given diagram of the nitrogen cycle.



Which arrow indicates nitrogen fixation and denitrification respectively?

	Nitrogen Fixation	Denitrification
1.	P	Q
2.	P	R
3.	Q	P
4.	Q	R

49. The mode of transmission of dengue is

1. Air
2. Contact
3. Water
4. Vector

50. Depletion of ozone layer causes

1. Breast cancer
2. Blood cancer
3. Lung cancer
4. Skin cancer

51. Which pollution is harmful for 'Tajmahal'?

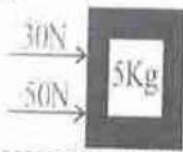
1. Hydrogen
2. O_2
3. SO_2
4. Chlorine

52. Pollution is not caused by
1. Thermal power plant
 2. Automobile
 3. Radioactive power plant
 4. Hydrolytic power plant
53. If the mass of the body is 1 kg. If it is applied by a force of 5 N to change its velocity by 5 m/sec, what is the time of force applied?

- | | |
|----------|----------|
| 1. 1 sec | 2. 2 sec |
| 3. 3 sec | 4. 4 sec |

54. Momentum of a body is
1. Product of mass and velocity
 2. Product of mass and speed
 3. Product of force and velocity
 4. Product of force and speed

55. The acceleration of the block in the figure is



1. 16m/s^2 towards left
2. 16m/s^2 towards right
3. 4m/s^2 towards left
4. 4m/s^2 towards right

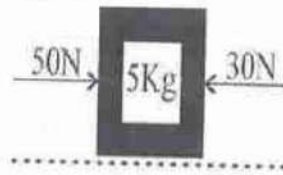
56. A cylindrical pipe contains 10 litres of water. The pressure exerted at the base is 2500Nm^{-2} . If another 10 litres is poured in to the pipe the pressure will be

- | | |
|-------------------------|--------------------------|
| 1. 2500Nm^{-2} | 2. 7500Nm^{-2} |
| 3. 5000Nm^{-2} | 4. 25000Nm^{-2} |

57. A gravitational force of 19600N acts on a freely falling body if $g = 9.8\text{ms}^{-2}$, mass of the body is

- | | |
|-----------|-----------|
| 1. 1 kg | 2. 20kg |
| 3. 200 kg | 4. 2000kg |

58. The acceleration of the block in the figure is



1. 16m/s^2 towards left
2. 16m/s^2 towards right
3. 4m/s^2 towards left
4. 4m/s^2 towards right

59. Momentum of a body indicates
1. Its ability to communicate motion to another body
 2. Its energy
 3. Its power
 4. Its force

60. Two bodies A & B, of same masses are moving with velocity 'V' & '2V' respectively. Compare their momentum.

- | | |
|--------|--------|
| 1. 2:1 | 2. 3:1 |
| 3. 1:2 | 4. 1:3 |

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Section III: Logic & Reasoning

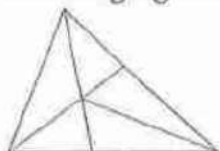
61. If $A > B$, $B > C$ and $C > D$, then which of the following conclusions is definitely wrong?

1. $A > D$ 2. $A > C$
3. $D > A$ 4. $B > D$

62. Choose the set of numbers which is like the given set: (48, 24, 12)

1. (44, 22, 10)
2. (46, 22, 11)
3. (40, 20, 10)
4. (42, 20, 10)

63. How many triangles are there in the following figure?



1. 6 2. 10
3. 11 4. 12

64. Five children take part in a tournament. Each one has to play every other one. How many games must they play?

1. 8 2. 10
3. 24 4. 30

65. Which fraction comes next in the

sequence $\frac{1}{2}, \frac{3}{4}, \frac{5}{8}, \frac{7}{16}$

1. $\frac{9}{32}$ 2. $\frac{10}{17}$
3. $\frac{11}{34}$ 4. $\frac{12}{35}$

66. Choose the number which is different from others

1. 13 2. 23
3. 71 4. 63

67. $16 : 56 :: 32 : ?$

1. 96 2. 112
3. 118 4. 128

68.



1. 22 2. 30
3. 32 4. None of these

69. Choose the odd one out from the following

1. parrot 2. Bat
3. sparrow 4. pigeon

70. If + means \times , \times means $-$, \div means $+$ and $-$ means then Which of the following gives the result of $175 - 25 \div 5 + 20 \times 3 + 10?$

1. 77 2. 160
3. 240 4. 2370

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DHB SONI COLLEGE TALENT SEARCH -2019
ANSWER KEY Batch - II
CLASS - VIII

MATHS

Q.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
A.	4	1	2	3	3	3	2	2	2	4
Q.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
A.	2	1	1	1	3	2	2	3	4	4
Q.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.
A.	2	2	2	4	1	1	3	3	2	4

Science

Q.	31.	32.	33.	34.	35.	36.	37.	38.	39.	40.
A.	2	1	4	4	2	2	3	3	1	2
Q.	41.	42.	43.	44.	45.	46.	47.	48.	49.	50.
A.	3	4	2	3	3	3	1	3	4	3
Q.	51.	52.	53.	54.	55.	56.	57.	58.	59.	60.
A.	3	4	1	1	4	3	4	2	1	3

LOGIC AND REASONING

Q.	61.	62.	63.	64.	65.	66.	67.	68.	69.	70.
A.	3	3	4	2	1	4	2	3	2	1

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DHB SONI COLLEGE TALENT SEARCH -2019
ANSWER KEY Batch - II
CLASS - IX

MATHS										
Q.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
A.	4	3	1	2	3	4	2	3	2	3
Q.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
A.	1	4	3	1	2	2	1	2	1	2
Q.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.
A.	4	2	2	1	3	1	1	4	1	3
Science										
Q.	31.	32.	33.	34.	35.	36.	37.	38.	39.	40.
A.	2	3	2	4	2	4	3	3	2	3
Q.	41.	42.	43.	44.	45.	46.	47.	48.	49.	50.
A.	4	3	2	1	3	4	1	3	4	2
Q.	51.	52.	53.	54.	55.	56.	57.	58.	59.	60.
A.	3	1	2	2	1	3	4	4	4	2
LOGIC AND REASONING										
Q.	61.	62.	63.	64.	65.	66.	67.	68.	69.	70.
A.	2	2	2	2	1	4	3	2	1	2

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ANSWER KEY Batch - II
CLASS - X

MATHS										
Q.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
A.	1	2	2	3	3	2	3	1	3	1
Q.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
A.	2	2	3	4	1	2	4	1	4	1
Q.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.
A.	1	2	2	4	3	3	4	2	1	3
Science										
Q.	31.	32.	33.	34.	35.	36.	37.	38.	39.	40.
A.	2	4	3	2	4	4	2	3	3	3
Q.	41.	42.	43.	44.	45.	46.	47.	48.	49.	50.
A.	2	2	2	2	3	4	2	4	1	3
Q.	51.	52.	53.	54.	55.	56.	57.	58.	59.	60.
A.	1	3	2	2	1	4	1	4	2	3
LOGIC AND REASONING										
Q.	61.	62.	63.	64.	65.	66.	67.	68.	69.	70.
A.	2	3	4	2	2	2	2	4	2	2



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D.H.B SONI COLLEGE, SOLAPUR**TALENT SEARCH EXAM RESULT - 2019**

Date :- 1-12-2019

Std :- VIII

Roll number	Name	School Name	Total	Rank	Remark
802046	Parth Rathj	S.R.Chandak Highschool	244	1	First
802080	Tejas Gunare	Saint Joseph High School	212	2	Second
802136	Makarand Dhepe	English School Mangalwedha	212	2	Second
802034	Shravani Math	IMS	208	3	Third
802031	Harshita Khobare	IMS	204	4	Consolation (City)
802066	Mahin Sanklecha	IMS	204	4	Consolation (City)
802074	Sneha Hogade	St. Joseph highschool, Solapur	200	5	Consolation (City)
802147	Shreyas Mahindrakar	L.F.C. School	196	6	Consolation (City)
802146	Samarth Deshmukh	L.F.C. School	192	7	Consolation (City)
801024	Ankur Raj	Tawate Coaching Classes Sangola	184	8	Consolation (Rural)
801040	Abhinav Gentyal	Shri Swami Narayan Kumbhari	168	11	Consolation (Rural)
801175	Shridhar Koli	Shri Swami Narayan Kumbhari	160	12	Consolation (Rural)
801096	Kiran Patil	Arya Public School Tembhuri	148	15	Consolation (Rural)
802065	Sanket Khandare	Sant Tukaram Vidyalaya Pangaon	144	16	Consolation (Rural)



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D.H.B SONI COLLEGE, SOLAPUR

TALENT SEARCH EXAM RESULT - 2019

Date :- 1-12-2019

Std :- IX

Roll number	Name	School Name	Total	Rank	Remark
901022	Jahagirchar Soham	IMS	264	1	First
901029	Jagtap Aditi	IMS	260	2	Second
901010	Khatawkar Ishan	IMS	256	3	Third
901013	Ubale Priyadarshi	IMS	252	4	Consolation (City)
901113	Gunik Maloo	S.R. Chandak Highschool	248	5	Consolation (City)
901154	Nikhil Upadhye	S.R. Chandak Highschool	248	5	Consolation (City)
901023	Ghorpade Pruthviraj	Late VM Mehta School	244	6	Consolation (City)
901015	Kulkarni Sharwari	IMS	240	7	Consolation (City)
901177	Pranoti Deshmukh	Singhad School Sangola	220	11	Consolation (Rural)
901173	Prajakta Navgire	Arya Public School Tembhumni	176	18	Consolation (Rural)
901198	Rugved Potdar	Singhad School Sangola	172	19	Consolation (Rural)
902035	Mansi Londhe	Sant Tukaram Vidyalaya Pangaon	172	19	Consolation (Rural)
901200	Rushabh Shah	Arya Public School Tembhumni	164	20	Consolation (Rural)

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D.H.B SONI COLLEGE, SOLAPUR**TALENT SEARCH EXAM RESULT - 2019**

Date :- 1-12-2019

Std :- X

Roll number	Name	Name of School	Total	Rank	Remark
101109	Kedar Pandit Dhepe	B.F. Damani Highschool	256	1	First
101029	Mundada Ayush	IMS	252	2	Second
101339	Patil Om	Unique English Medium School	248	3	Third
101035	Abha Lahurika	Saint Joseph Highschool	240	4	Consolation (City)
101145	Neha Daga	S.R. Chandak Highschool	240	4	Consolation (City)
101020	Anuse Gouri	VM Mehta School	232	5	Consolation (City)
101076	Devansh Thakkar	L.F.C	228	6	Consolation (City)
101028	Shinde Rishikesh	IMS	220	7	Consolation (City)
101234	Shreyas Chavan	Singhad School Sangola	200	12	Consolation (Rural)
101172	Pratik Shinde	Singhad School Sangola	172	19	Consolation (Rural)
101079	Dnyandeep Kadam	Singhad School Sangola	168	20	Consolation (Rural)
102010	Anup Jagtap	Learn & Play School Daund	164	21	Consolation (Rural)
102036	Pranali More	Sant Tukaram Vidyalaya Pangaon	156	23	Consolation (Rural)

Mr. Sunilji Maheshwari
Event CoordinatorDr. Vasanti Iyer
PrincipalMr. Anandji Bhandari
SecretaryMr. Laxmikant Somani
Chairman**PRINCIPAL**
D.H.B. Soni College,
Solapur

D.H.B. SONI COLLEGE
105/2B, Vaishnavi Nagar, Vijapur Road,
Solapur - 413004

Prize Money DHB Soni Talent Search
Ledger Account

1-Apr-2019 to 31-Mar-2020

Date	Particulars	Vch Type	Vch No.	Debit	Page 1 Credit
27-4-2019	To Central Bank of India A/c No. 3173068368current A/c Being paid to Anvi S. Karande for VIII Std. consolation prize	Bank Payment	62	1,000.00	
27-12-2019	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. -X 1st Prize of talent search 2019-20 kedar pandit dhepe	Bank Payment	844	11,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. -X 2nd Prize of talent search 2019-20 Mundada Ayush	Bank Payment	845	7,500.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. -X 3rd Prize of talent search 2019-20 Om Mahesh patil	Bank Payment	846	5,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. -X consolation Prize of talent search 2019-20 Abha Bhagyoday Lahurkar	Bank Payment	847	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. -X consolation Prize of talent search 2019-20 Neha Daga	Bank Payment	848	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - IX 1st Prize of talent search 2019-20 soham Shrikant jahagirdar	Bank Payment	849	11,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - IX 2nd Prize of talent search 2019-20 Aditi Abhijit Jagtap	Bank Payment	850	7,500.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - IX 3rd Prize of talent search 2019-20 Ishan Prasanna Khatawkar	Bank Payment	851	5,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - IX consolation Prize of talent search 2019-20 Priydarshani Anup Ubale	Bank Payment	852	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - IX consolation Prize of talent search 2019-20 to Gunik Shailesh Maloo	Bank Payment	853	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - IX consolation Prize of talent search 2019-20 to Nikhil Amit Upadhye	Bank Payment	854	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - IX consolation Prize of talent search 2019-20 to shawari R. Kulkarni	Bank Payment	855	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - VIII 1st Prize of talent search 2019-20 parth Arvind Rathil	Bank Payment	856	11,000.00	
	Carried Over				
				65,000.00	


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D.H.B. SONI COLLEGE

Prize Money DHB Soni Talent Search Ledger Account : 1-Apr-2019 to 31-Mar-2020

Page 2

Date	Particulars	Vch Type	Vch No.	Debit	Credit
	Brought Forward			65,000.00	
27-12-2019	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - VIII 2nd Prize of talent search 2019-20 Tejas Mahesh Gunare	Bank Payment	857	3,750.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - VIII 3rd Prize of talent search 2019-20 Shravani S. math	Bank Payment	858	5,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - VIII 2nd Prize of talent search 2019-20 Makarand Dhepe	Bank Payment	859	3,750.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - VIII consolation Prize of talent search 2019-20 to Harshita N. Khopare	Bank Payment	860	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - VIII consolation (Rural) Prize of talent search 2019-20 to kiran Dattatray Patil	Bank Payment	861	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - IX consolation (Rural) Prize of talent search 2019-20 to prajkta sachin navgire	Bank Payment	862	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - IX consolation Prize of talent search 2019-20 to Rushabh Prassanna shah	Bank Payment	863	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - VIII consolation (Rural) Prize of talent search 2019-20 to shridhar B. Koli	Bank Payment	864	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - VIII consolation (Rural) Prize of talent search 2019-20 to Abhinav shrirang Gentyal	Bank Payment	865	1,000.00	
31-1-2020	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - VIII consolation (Rural) Prize of talent search 2019-20 to sneha sunil hogade	Bank Payment	929	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - VIII consolation (Rural) Prize of talent search 2019-20 to shreyas sagar Mahindra	Bank Payment	930	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - VIII consolation (Rural) Prize of talent search 2019-20 to Samarth balasaheb Deshmukh	Bank Payment	931	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - VIII consolation (Rural) Prize of talent search 2019-20 to sanket Narayan khandare	Bank Payment	932	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - VIII consolation (Rural) Prize of talent search 2019-20 to mahin chiranjii sanklekha	Bank Payment	933	1,000.00	
	Carried Over			88,500.00	

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continued ...

Date	Particulars	Vch Type	Vch No.	Debit	Credit
	Brought Forward			88,500.00	
14-1-2020	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - IX consolation (Rural) Prize of talent search 2019-20 to ghorpade prithviraj bhaskar	Bank Payment	934	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - IX consolation (Rural) Prize of talent search 2018-2019 pranoti deshmukh	Bank Payment	935	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - IX consolation (Rural) Prize of talent search 2019-2020 Rugved Udhav Potdar	Bank Payment	936	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - IX consolation (Rural) Prize of talent search 2019-2020 manasi vikas lonche	Bank Payment	937	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - X consolation (Rural) Prize of talent search 2019-2020 Anuse Gouri	Bank Payment	938	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - X consolation (Rural) Prize of talent search 2019-2020 Devansh Thakkar	Bank Payment	939	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - X consolation (Rural) Prize of talent search 2019-2020 shinde rushikesh N.	Bank Payment	940	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - X consolation (Rural) Prize of talent search 2019-2020 shreyas S. Chavan	Bank Payment	941	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - X consolation (Rural) Prize of talent search 2019-2020 pratik B. Shinde	Bank Payment	942	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - X consolation (Rural) Prize of talent search 2019-2020 Dnyandeep kadam	Bank Payment	943	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - X consolation (Rural) Prize of talent search 2019-2020 Dnyandeep N. Kadam	Bank Payment	944	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - X consolation (Rural) Prize of talent search 2019-2020 pranali more	Bank Payment	945	1,000.00	
	To Central Bank of India A/c No. 3173068368current A/c Being paid to Std. - VIII consolation (Rural) Prize of talent search 2019-2020 Ankur Raj	Bank Payment	946	1,000.00	
	By Closing Balance			1,01,500.00	
				1,01,500.00	1,01,500.00


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दैनिक दिव्य मराठी

सोलापूर, सोमवार, २ डिसेंबर २०१९

टॅलेंट सर्च परीक्षेस १३०० विद्यार्थी

प्रतिनिधी | सोलापूर

देशभक्त हरिनारायण नंकरलाल सोनी महाविद्यालयात सोनी टॅलेंट सर्च परीक्षा घेण्यात आली. या परीक्षेत १३०० विद्यार्थ्यांनी सहभाग नोंदवला. परीक्षेसाठी संपूर्ण जिल्ह्यातील एकूण ५५ शाळांमधील तसेच कोचिंग क्लासेस मधील ८ वी, ९ वी व १० वीच्या विद्यार्थ्यांनी भाग घेतला. मराठी व इंग्रजी वा दोन्ही माध्यमातून

घेण्यात आलेली ही परीक्षा गणित, सामान्य विज्ञान व तार्किक विचार या विषयांवर आधारित होती. एकूण २८० गुणांची ही परीक्षा वस्तुनिष्ठ व बहुपर्यायी स्वरूपाची होती. परीक्षेचा निकाल डिसेंबर २०१९ च्या शेवटच्या आठवड्यात लावण्यात येईल तसेच यशस्वी विद्यार्थ्यांना पारितोषिक महाविद्यालयाच्या जानेवारी २०२० मध्ये होणाऱ्या वार्षिक पारितोषिक वितरण समारंभात दिले जाईल.

2 DEC 2019



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Maheshwari Vidya Pracharak Mandal, Pune's
Deshbakt Harinarayan Bankatlal
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Event Coordinator

Hardeep R. Bombra

Mrs. Hardeep R. Bombra
Vice Principal

Vasanti C. Iyer

Dr. Vasanti C. Iyer
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