

**D.H.B. SONI COLLEGE , SOLAPUR**  
**TALENT SEARCH EXAM. SYLLABUS 2020-21**

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

**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  $373^{\circ}\text{C}$  is:
  - a. 273K
  - b. 298K
  - c. 646K
  - d. 479K

**Maths**

1. The simplest form of  $\frac{\sqrt{98}}{2}$  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