

**BLUE PRINT FOR PERIODIC TEST 1 2017-2018**

**CLASS : IX**

**SUB : MATHS**

Sr No	CHAPTERS	VSA	SA1	SA2	LA	TOTAL
1	NUMBER SYSTEMS	1(1)	1(2)	1(3)	1(4)	4(10)
2	POLYNOMIALS	1(1)	1(2)	1(3)	1(4)	4(10)
3	COORDINATE GEOMETRY	1(1)	1(2)	1(3)	1(4)	4(10)
4	LINEAR EQUATIONS IN TWO VARIABLES	--	--	1(3)	1(4)	2(7)
5	INTRODUCTION TO EUCLID'S GEOMETRY	1(1)	1(2)	--	--	2(3)
<b>TOTAL</b>		<b>4(4)</b>	<b>4(8)</b>	<b>4(12)</b>	<b>4(16)</b>	<b>16(40)</b>

**PATTERN OF QUESTION PAPER**

MARK	NO OF QUESTIONS	TOTAL MARKS
1	4	04
2	4	08
3	4	12
4	4	16
<b>TOTAL</b>		<b>40</b>

**KENDRIYA VIDYALAYA NDA PUNE-23**  
**PERIODICAL TEST-1 SESSION : 2018-19 SET-II**

**CLASS : IX**

**SUB: MATHS**

**TIME :  $1\frac{1}{2}$  hrs**

Instructions :

All questions are compulsory. Section A contains 4 questions of 1 mark each, Section B contains 4 questions of 2 marks each, Section C contains 4 questions of 3 marks each, Section D contains 4 questions of 4 marks each.

**SECTION A**

- 1) Simplify :  $27^{\frac{1}{2}} \times 4^{\frac{1}{2}}$
- 2) Find the zeroes of the polynomial,  $p(x) = 3x + 7$
- 3) Define line
- 4) The degree of the given polynomial is  $x^5 + 1$  is \_\_\_\_\_

**SECTION B**

- 5) Express 7.88... in  $\frac{p}{q}$  form.
- 6) Factorise  $(x + 4)^2 - 1$
- 7) If A, B and C are three points on a line, and B lies between A and C, then prove that  $AB + BC = AC$ .



- 8) Where do these points lie on the Cartesian system? (0,8) (1,-2) (6,0) (-4,5)

**SECTION C**

- 9) Plot  $\sqrt{5}$  on number line.
- 10) Rationalise the denominator :  $\frac{5}{\sqrt{7}-\sqrt{2}}$
- 11) Find three solutions of the equation  $2x + y = 3$
- 12) Divide  $3x^2 + x + 1$  by  $x + 1$  and find remainder by long division method.

**SECTION D**

- 13) Verify  $x^3 + y^3 + z^3 = \frac{1}{2}(x+y+z) [(x-y)^2 + (y-z)^2 + (z-x)^2]$
- 14) Plot the given points A (3,0), B (3,3) and C (0,3) on a graph and join them. Which figure do you get?
- 15) Draw the graph of given equation  $2x - y = 4$ .
- 16) Write the equations in standard form and write a, b and c  
 $x - y = 7$  ,  $3x + 5 = -2y$

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