PM SHREE KENDRIYA VIDYALAYA SITAPUR
PERIODIC TEST-2 (2023-2024)
CLASS-8 (MATHS)

T.Mark: 40

Time:-90 min

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INSTRUCTIONS:-1.All questions are compulsory

2.This question paper have 19 questions which is divided into 4 section

3. Section – A have 8 questions of 1 mark each. Section- B have 4 questions of 2 marks each ,

Section –C have 4 questions Of 3 marks each and Section –D have 3 questions of 4 marks each.

S.NO	SECTION-A(8X1=8)	MARKS
1	An algebraic expression that contains only one term is called: (a) Monomial (b) Binomial (c) Trinomial (d) None of the above	1
2	In which of the following, the two expressions are like terms? (a) 7x and 7y (b) 7x and 9x (c) 7x and $7x^2$ (d) 7x and 7xy	1
3	If the edge of a cube is 1 cm then which of the following is its volume? (i) 6 m^3 (ii) 3 m^3 (iii) 1 m^3 (iv) none of these	1
4	Which of the following has its area and perimeter numerically equal? (i) an equilateral triangle of side 1 cm (ii) a square of side 1 cm (iii) a square of side 1 cm (iv) a regular pentagon of side 1 cm	1
5	The value of 2^{-2} is	1

	(a) 4 (b) ¼ (c) 2 (d) ½	
6	$2^2 \times 2^3 \times 2^4$ is equal to: (a) 2^{24} (b) 2^{-5} (c) 2^9 (d)2^{-9}	1
7	If x = 20 and y = 40, then x and y are: (a) Directly proportional (b) Inversely proportional © Neither directly nor inversely proportional (d) Cannot be determined	1
8	If x and y are inversely proportional, then which one is true? (a) $x_1/y_1 = x_2/y_2$ (b) $x_1/x_2 = y_1/y_2$ (c) $x_1/x_2 = y_2/y_1$ (d)$x_1.x_2 = y_1.y_2$	1
	SECTION-B(4X2=8)	
9	Subtract 4a – 7ab + 3b + 12 from 12a – 9ab + 5b – 3	2
10	The area of a rhombus is 240 cm2 and one of the diagonals is 16 cm. Find the other diagonal.	2
11	Express the following numbers in usual form. (i) 3.02×10^{-6} (ii) 4.5×10^4 (iii) 3×10^{-8}	2
12	A machine in a soft drink factory fills 840 bottles in six hours. How many bottles will it fill in five hours?	2
	SECTION-C(4X3=12)	
13	Find the height of a cuboid whose base area is 180 cm2 and volume is 900 cm3 ?	3
14	Find m so that $(-3)^{m+1} \times (-3)^5 = (-3)^7$	3
15	If 15 workers can build a wall in 48 hours, how many workers will be required to do the same work in 30 hours?	3
16	Obtain the product of (i) xy, yz, zx (ii) a, $-a^2$, a^3 (iii) 2, 4y, $8y^2$, $16y^3$	3
	SECTION-D(3X4=12)	
17	A closed cylindrical tank of radius 7 m and height 3 m is made from a sheet of metal. How much sheet of metal is required?	4
18	Simplify. $\frac{25 \times t^{-4}}{5^{-3} \times 10 \times t^{-8}}$ $(t \neq 0)$	4
19	A factory requires 42 machines to produce a given number of	4

	articles in 63 days. How many machines would be required to produce the same number of articles in 54 days?	