

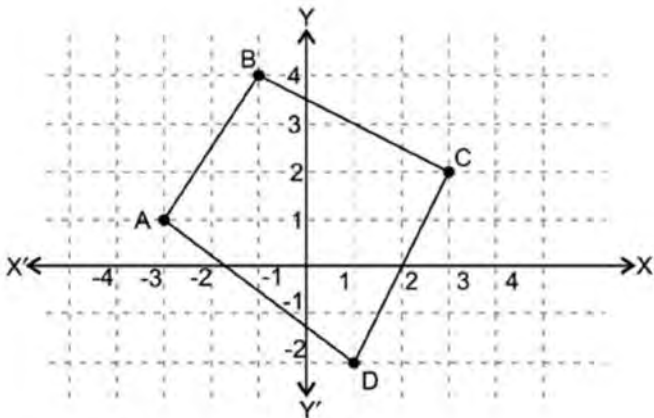
PM SHRI KENDRIYA VIDYALAYA SITAPUR FIRST SHIFT

PERIODIC TEST-3

CLASS-IX (MATHS) 2023-24

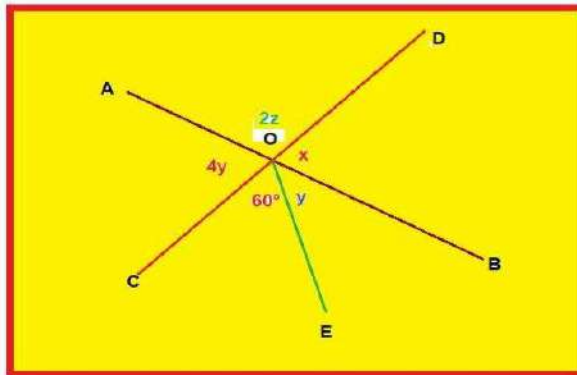
M.M:-40

TIME:-90 MIN

QUESTIONS	SECTION-A	MARKS
Q.1	Every irrational number is (a) even number (b) odd number (c) natural number (d) real number	1
Q.2	Degree of the polynomial $x^2 + 2x + 5$ (a) 1 (b) 2 (c) 3 (d) 4	1
Q.3	$(-1, 0)$ lies in (a) first quadrant (b) 2 nd quadrant (c) 3 rd quadrant (d) x-axis	1
Q.4	One solution of the linear equation $X+2Y=5$ is (a) (1,2) (b) (2,1) (c) (-1,2) (d) (-2,1)	1
Q.5	Obtuse angle lies between (a) 0° and 90° (b) 90° and 180° (c) 180° and 270° (d) 270° and 360°	1
Q.6	Which is congruence criteria for two triangles (a) AAA (b) ASS (c) SSS (d) AA	1
Q.7	Axioms are assumed: (a) universal truths in all branches of mathematics (b) theorems (c) definitions (d) universal truth specific to geometry	1
Q.8	Sum of angles of a Quadrilateral is (a) 90° (b) 180° (c) 270° (d) 360°	1
Q.9	Chord of a circle is a line segment (a) whose end points on the boundary of circle (b) Touches the circle (c) Passes through Circle (d) none of these	1
Q.10	Area of a triangle is (a) $\sqrt{s(s-a)(s-b)(s-c)}$ (b) $\sqrt{(s-b)(s-c)}$ (c) $\sqrt{s(s-a)}$ (d) $\sqrt{s(s-a)(s-b)}$	1
Q.11	Curved surface of a cone is (a) $2\pi rl$ (b) $3\pi rl$ (c) $\frac{1}{2}\pi rl$ (d) πrl	1
Q.12	Two adjacent angles of a parallelogram are $(2x + 25)^\circ$ and $(3x - 25)^\circ$. The value of x is (a) 28° (b) 32° (c) 36° (d) 42°	1
SECTION- B		
Q.13	<p>Four students A, B, C and D visited a Park on Sunday along with their Mathematics teacher. The teacher instructed all four students to attempt test. They are sitting at the corners of a park, which is in the shape of a quadrilateral and started solving the test paper.</p> 	4

- (a) Write the coordinates of A and B.
- (b) Write the ordinate of D.
- (c) In which quadrant is A sitting ?
- (d) who is sitting in the third quadrant

Q.14



4

Answer the Following Questions

- (i) What is the value of x?
- (ii) What is the value of y?
- (iii) What is the value of z?
- (iv) What should be the value of $2x + 3z$

SECTION-C (VSA)

Q.15 Simplify $(a - 2b + c)^2$ **1**

Q.16 State Mid-point theorem **1**

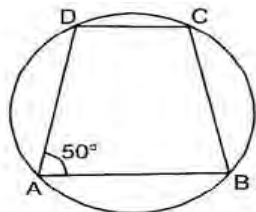
Q.17 Find an irrational number between $\frac{1}{7}$ and $\frac{2}{7}$ **1**

Q.18 Express the following linear equation in the form $ax + by + c = 0$ and indicate the values of a, b and c
 $x - \frac{1}{2}y - 20 = 0$ **1**

Q.19 . Find the value of k, if $x = 2, y = 1$ is a solution of the equation $2x + 3y = k$.. **1**

Q20 In a quadrilateral, $\angle A = \angle B = 75^\circ$ and $\angle D = 110^\circ$, find $\angle C$. **1**

Q.21 the given figure, ABCD is a cyclic quadrilateral, If $\angle A = 50^\circ$, then find the measure of $\angle DCB$. **1**



Q.22 Rationalise the denominator of $\frac{1}{\sqrt{3}-\sqrt{5}}$ **1**

SECTION-D

Q.23 Write $0.\bar{7}$ in the form $\frac{p}{q}$ **2**

Q.24 Evaluate $-12^3 + 7^3 + 5^3$ **2**

Q.25 Find the volume of a Sphere whose radius is 4.2 cm **3**

Q.26 Factorise : $2y^3 + y^2 - 2y - 1$ **2**

Q.27 Represent by a Bar graph **3**

Pets	Cow	Dog	Parrot	Rabbit
Number of families	18	24	10	5