

Swotters Academy

Test / Exam Name: Maths - Coordinate Geometry	Standard: 9th	Subject: Mathematics	
Student Name:	Section:	Roll No.:	
		Questions: 26 Time: 01:45 hh:mm Marks: 50	

1.1. Keep the timer and then start the exam. 2. Keep your work tidy. 3. Make sure to write new section on the new page and all the questions number properly. 4. For Maths - make sure to do all the rough work on the right hand side only. 5. Recheck your paper before submitting. Check your paper like you are checking your enemy's paper - find the maximum mistakes and then correct it.

are	checking your enemy's paper - mir	u tile maximum mistakes and tilen	correct it.					
		\$	SECTION-A					
Q1.	The equation of x-axis is:				1 Mark			
Q2.	A x = 0 A point whose abscissa is -3 and ore	B None of these.	C y = x	D y = 0	1 Mark			
	A Fourth quadrant.	B Third quadrant.	C First quadrant.	D Second quadrant.				
Q3.	The point at which the two co-ordin				1 Mark			
Q4.	A Origin. The ordinate of any point on x-axis	B Quadrant. is:	C Abscissa.	D Ordinate.	1 Mark			
	A 1	B -1	c 0	D Any number.				
Q5.	The abscissa of a point is positive in	the:			1 Mark			
Q6.	A Fourth and first quadrant. C First and second quadrant. The point (0, 9) lies		B Third and fourth quadrant. D Second and third quadrant.		1 Mark			
	A On the positive direction of x-axis		B In quadrant III					
	C In quadrant IV		D On the positive direction of y-axi	is				
Q7.	y co-ordinate is known as:				1 Mark			
-00	A Ordinate.	B Origin.	C None of these.	D Abscissa.	4.441-			
Q8.	On plotting the points O(0, 0), A(3,		B, BC and CO which of the following f	igure is obtained?	1 Mark			
00	A Square. Point (-7, 0) lies.	B Rectangle.	C Trapezium.	D Rhombus.	1 Mark			
Q9.	* * *				I Mark			
	A On the negative direction of the : C In the IV quadrant.	x-axis	B On the negative direction of the D In the III quadrant.	y-axis				
Q10.	Directions: In the following questio choose the correct alternative from Assertion (A): Origin lies on x axis.	the following:	(R) have been put forward. Read bot x, 0) and that of the point on the y - a	,	1 Mark			
	A Both A and R are true and R is th	e correct explanation of A.	B Both A and R are true but R is not the correct explanation of A.					
	C A is true but R is false.		D A is false but R is true.					
Q11.	Write the answer of the following of Write the name of the point where				1 Mark			
Q12.	12. Write whether the following statements are True or False? Justify your answer. Point (3, 0) lies in the first quadrant.							
Q13.	Without plotting the points indicate Abscissa is -5 and ordinate is -3	the quadrant in which they will lie,	if:		1 Mark			
Q14.	Without plotting the points indicate Ordinate is 5 and abscissa is 3.	the quadrant in which they will lie,	if:		1 Mark			
Q15.	Write the answer of the following q What is the name of each part of th				1 Mark			
SECTION-B								
Q16.	LM is a line parallel to the y-axis at	a distance of 3 units:	_		2 Marks			



Consider the above image for the passage. An university student uses a geometry software package, known as Cabri Geometry. It is a Geometer's Sekethpad, or similar application on a handled device, to construct a figure from Its definition of points and segments, as shown above in the figure. The student starts by placing points and extending it in the construction window. Based on the above information, answer the following questions.

1. According to the student, what is the definition of point D?

1. (3, 4)

2. (3, 5)

2. (3, 5) 3. (5, 3) 4. (4, 3) 2. Accordi 1. (3, -2) 2. (5, -4) 3. (-4, 5) 4. None

ording to the student, what is the definition of point C?

3. According to the student, what is the definition of point A?

1. (3, 2) 2. (3, 3) 3. (5, 4) 4. (2, 3)

4. What is the difference between abscissa of A and D?

1. 0 2. 1

 \ldots 5. What is the difference between ordinates of C and D? 1. 3

2. 2

3. 1 4. 0

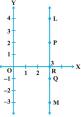
Q26. On the plane of a graph paper draw X' OX and YOY' as coordinate axes and plot each of the following points.

1. A(5, 3) 2. B(6, 2) 3. C(-5, 3) 4. D(4, -6)

5. E(-3, -2) 6. F(-4. 4)

7. G(3, -4) 8. H(5, 4) 9. I(0, 6) 10. J(-3, 0)

11. K (0, -2) 12.0(0,0)



dinates of the points P. R and Q?

What is the difference between the abscissa of the points L and M?

Q17. Which of the following points lie on y-axis? A(1,1),B(1,0),C(0,1),D(0,0),E(0,-1),F(-1,0),S(0,5),H(7,0),I(3,3).2 Marks Q18. Which of the following points lie on the x-asis? 2 Marks 1. A(0, 8) 2. B(4, 0) 3. C(0, -3) 4. D(-6, 0) 5. E(2, 1) 6. F(-2, -1) 7. G(-1, 0) 8. H(0, 2)

2 Marks

3 Marks

Q19. Plot the points (x, y) given by the following table:

×	2	4	-3	-2	3	0
У	4	2	0	5	-3	0

Q20. Find the coordinates of the point:

1. Which lies on x and y axes both.

2. Whose ordinate is -4 and which lies on y-axis.

3. whose abscissa is 5 and which lies on x-axis.

Q21. Plot the following points and check whether they are collinear or not: (1,1),(2,-3),(-1,-2)

Q22. Plot the points (x, y) given in the following table on the plane, choosing suitable units of distance on the a

SECTION-C

Q23. Read the case study given below and answer the questions that follow:

A city planner is designing a new park in the city. The park will have a rectangular shape and is to be plotted on a coordinate plane. The four corners of the park are located at points A(2, 3), B(2, 8), C(7, 8), and D(7, 3). The planner wants to include a fountain at the midpoint of the park. Calculate the coordinates of the midpoint where the fountain will be placed. Additionally, determine the lengths of the sides of the park and its perimeter. Explain how coordinate geometry is used to solve this real-world problem.

1. Find the coordinates of the midpoint of the park where the fountain will be placed.

2. What is the length of the side AB of the park?

3. Calculate the perimeter of the park.

Q24. Write the coordinates of each of the following points marked in the graph paper.

D (0,0)(0 P F. .

5 Marks