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SECOND MID TERM TEST - 2024 MATHEMATICS YOUTUbe / Akwa Academy

Time Allowed	: 1.30	Hours]	YouTul
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[Max. Marks: 50

	ine Allowed . 1.30 110			ART - I	Academy			
1.	Choose the corre	ct Answe	er.					7x1=7
1.	Which of the follow	ing is a so	olution of the	equation	2x-y=6			
	(a) (2,4)	(b)	(4,2)	(c)	(3,-1)	(d)	(0,6)	
2.	The value of K fo	r which th	e pair of line	ear equa	tions 4x+6y-1	=0 and	2x+ky-7=0 re	presents
	parallel lines is							
	(a) K = 3	(b)	K = 2	(c)	K = 4	(d)	K = -3	
3.	The interior angle	made by t	he side in a _l	parallelog	ıram is 90° th	en the	parallelogram	is a
	(a) rhombus	(b)	rectangle	(c)	trapezium	(d)	kite	
4.	If (x+2, 4)= (5,y-2)	, then the	coordinates	(x, y) are				
	(a) (7, 12)	(b)	(6, 3)	(c)	(3, 6)	(d)	(2, 1)	
5.	The point whose of	ordinate is	4 and which	lies on th	ne y- axis is -	/	i a	
	(a) (4, 0)	(b)	(0, 4)	(c)	(1, 4)	(d)	(4, 2)	e e e
6.	If The points A (2,0)) B (-6, 0)	, C (3, a-3) li	e on the	X - axis then	the valu	e of 'a' is	
	(a) 0	(b)	2.	(c)	3	(d)	-6	et protesty fi
7.	The distance betw	een the tw	vo points (2,3) and (1,	4) is			
	(a) 2	(b)	√56	(c)	√10	(d)	√2	
			P	ART - II				
11.	Answer any 5 Questions. 5x2=						5x2=10	
8.	Solve using the m	ethod of s	ubstitution 2x	c-3y=7, 5	x+y=9			•
9.	The angle of a qu	adrilateral	are in the ra	tio 2:4:5	7.Find the an	gles.		
10.	Find the length of a Chord which is at a distance of 2111 cm from the centre of a circle of the							
	radius 12 cm.							
11.	The Point (3,-4) is	the centre	e of a circle.	If AB is	a diameter of	the cire	cle and B is (5,-6). Find
	the Coordinate of	ſA.					TPR	/9/Mat/1
				W.				

- In which quadrant does the following points lie?
 - a) (3,-8)
- b) (-1,-3)
- c) (2,5) d) (-7,3)
- Find the distance between the following pairs of points. (1,2) and (4,3).
- Find the mid points of the line segments joint the points (8,-2) and (-8,0)

PART - III

III. Answer any 5. questions. 5x5=25

- Find the value of K for which the system of Linear equation 8x + 5y = 9, kx + 10y = 15.
- Show that the Point (11, 2) is the centre of the circle Passing through the Points (1,2), (3,-4) and (5,-6)
- 17. A Chord is 12 cm away from the centre of the circle of radius 15cm. Find the length of the Chord.
- Whether the given set of points in each are collinear or not. (7,-2), (5,1), (3,4).
- Show that (4,3) is the centre of the circle passing through the points (9,3), (7,-1),(-1,3). Also find Radius.
- 20. The centre of a circle is (-4,2). If one end of the diameter of the circle is (-3,7). Then find the end.
- 21. The mid point of the sides of a triangle are (2,4), (-2,3) and (5,2). Find the coordinates of the vertices of triangles.

PART - IV

IV. Answer Any One.

1x8 = 8

(a) Use graphical method of solve the equation x+y=5, 2x-y=4.

(OR)

(b) Draw the Graph y = 3x - 1

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