53-A

SUMMATIVE ASSESSMENT - I - 2017-2018 MATHEMATICS PAPER - II

(English Medium)

PART-A&B

Class : IX

(Max. Marks: 40)

Time : 2.45 Hrs.

Instructions :

- 15 Minutes are allotted for reading the question paper (Part A &B) in addition to 2.30 hours for writing the answers.
- 2. Part A answers should be written in a separate answer book.
- 3. There are three Sections in Part A.
- 4. Answer all the questions.
- 5. Every answer should be visible and legible.
- 6. There is internal choice in Section III.
- 7. Part-A & B should be given at the beginning of the exam only.

Marks: 30

PART-A

Section - I

Note: 1. Answer all the Questions.

2. Each Question carries 1 Mark

 $4 \times 1 = 4$

1. Find mode of the following data

5, 10, 15, 12, 9, 10, 15, 18

- 2. Write any two points which lie in the second quadrant of a cartesian plane.
- ABCD is quadrilateral in which *AB* = *CD*, *BC* = *AD* and AC is the diagonal. Name the congruency rule to prove Δ ABC ≅ Δ ACD
- In the given diagram AD is the altitude which bisects BC. Is ΔABC is isosceles? Justify your answer.



Section - II

Note 1. Answer all the Questions.

2. Each Question carries 2 Marks

 $5 \times 2 = 10$

- Find the value of 'p' if the arithematic mean of 10,12,17,13, p is p.
- By observing the figure write the given information by using symbols



- In a 50- over cricket match runs scored in last 24 balls are as follows 1,4,0,0,6,1,1,1,4,0,0,0,2,1,0,4,6,6,0,0,0,4,1,0
 Find the average score of each ball in last 24 balls.
- 8 Temparatures of a city in Andhra Pradesh for a certain week are as follows. (Temparature is in "C) 36', 37'', 36'', 35'', 28'', 34'' Find the Media and Mode of given data
- Draw a rough Graph with X, Y axis and locate the points given below in the respective Quadrants. A(3,5), B(-3,4), C(2,-3), D(-3,-5)

Section - III

Note: 1. Answer all the Questions. 2. Each Question has internal choice 3. Each Question carries 4 Marks

 $4 \times 4 = 16$

10. a) In a city post - office letters deliverd in 50 working days are given below.

35, 45, 55, 50, 30, 110, 95, 40, 70, 100, 60, 80, 85, 60, 52, 95, 98, 35, 47, 45, 105, 90, 30, 50, 75, 95, 85, 80, 35, 45, 40, 50, 60, 65, 55, 45, 30, 90, 115, 65, 60, 40, 100, 55, 75, 110, 85, 95, 55, 50.

Construct a frequency distribution table inclusive classes having class interval 10.

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b) Three coins were tossed simulteneausly for 30times. Each time the number of heads occuring was noted down as follows.

1, 2, 3, 2, 3, 1, 1, 1, 0, 3, 2, 1, 2, 2, 1

1, 2, 3, 2, 0, 3, 0, 1, 2, 3, 2, 2, 3, 1, 1

Prepare a frequency distribution table and also greater than cumilative frequencies for the given data.

11. a) If the mean of the following data is 7.5, then find the value of A

Marks	5	6	7	8	9	10
No.of Students	3	10	A	18	8	4

(OR)

b) Plot the points A (2,2), B (8,2), C (8,5) and D (4,5) in a graph sheet. Join $\overline{AB, BC, CD, AD}$ and find the area of the quadrilataral ABCD in Sq.units.

12. a) Prove that the angles opposite to equal sides of an isoceles triangle are equal.

(OR)

b) In the given figure \overline{AR} is parallel to

TD and 'O' is the mid - point of AD .

Show that 'O" is also the mid - point of \overline{BC}



13. Plot the points on the graph sheet using the following statements.

 A is a point which is at a distance of 6units from X- axis and 4units from Y- axis in Second Ouadrant.

ii) Plot B and C whose abscissa is 5 each

iii) D is a point which is equal distance from X - axis, from Y - axis and also from the origin.

iv) E is a point having the sum of the Co-ordinates is 6.

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(OR)

b) Read the following graph and answer the questions.

i) What is name of the figure in the graph

ii) What are the items taken on X- axis and Y- axis.

iii) What is the scale taken on Y - axis?

iv) Which class have more number of students? How much?



Read.No.

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B Marks:

SUMMATIVE ASSESSMENT - I - 2017- 2018

MATHEMATICS PAPER-II

(English Medium)

Class IX

Part - B

Fime : 30minutes

Marks: 10

Acadamic Standards		Problem Solving						Reasoning			Commu		Connetion			Visnalism	
Q.NO.s	1	2	5	10	11	14-21	3	4	12	22-25	6	26-29	7	8	30-33	9	13
Marks	t			X		2		-				1			70%	(8)	
Total Mark				3	1	101			1								

Name of the Student : .

---- Roll No.: -

Note:

- 1. Answer all question in Part B
- Each Question has 4 options. Write the capital letter indicating the answer in the given brackets.
- 3. Marks are not awarded for over writing answers.
- 4. All questions carry equal marks. .

14.	Arthematic Mean of Prime numbers between 10 to 20	A the givien fit)
	A) 13 B) 15 C) 17 D) 19		
15.	ΔABC and ΔPQR are Congruent. If $\angle BAC = \angle QP$.	$R = 70^\circ$ and	
	$\angle ACB = \angle ABC$ then $\angle PQR =$	6)
	A) 75° B) 70° C) 60° D) 55°		
16.	Which among these points lies on X - axis	0 - 00 - 0)
	L(0,4), M(4;0), N(0,6), O(0,0)		
	A) L and M B) M and O C) O only D) M or	ily divident	
17.	Which of the following point is $\sqrt{2}$ units of distance from	the origin ()
	A) $(\sqrt{2}, \sqrt{2})$ B) (1,1) C) (2,2) D) (4,4)		
18,	$\Delta ABC \equiv \Delta KIM. \text{If } \overline{AB} = 2x, \overline{BC} = 3y, \ \overline{AC} = 2x + y$		
	and $\overline{KL} = 6cm$, $\overline{LM} = 2x$, then $\overline{KM} =$	(.)
	A) 8cm B) 9 cm C) 7 cm D) 6 cm		

19.	For Which of the following M	ean and Median	are equal	()
	A) 4, 4, 5 B) 4, 6, 5				
20.	If the point (-x, -y) lies in first			()
20.	A) $x > 0$, $y > 0$	B) x < 0, y <	0		
	C) $x > 0, y < 0$	D) $x < 0, y >$	0		
21	From the given diagram find t	he value of x .		()
21.	(Note: A.O.B are on a line)				
	A) 40°	2	C		
	B) 70°		1		
	C) 100°	40	Mx		
	D) 80°	A	0. B		
22.	Check for which of the follow	ving Median is 3	.5	()
Arte.	A) 3, 6, 5, 3, 4, 3	B) 3, 5, 5, 3			
	C) 4, 3, 4, 5, 4, 3	D) 3, 4, 5, 6	,7, 8		
23.	If point (x, y) lies on \overrightarrow{OX} (point	ositive X - axis),	then point (y, 5) lie	s ()
43.		d for over wr	are not awards		
	A) \overrightarrow{OX} B) \overrightarrow{OY}	C) OX^{i}	D) <i>OY</i> ¹		
24.	In the given figure \overline{AB} is the	smallest side an	nd \overline{CD} is the bigges	at, then	14
	which of these is true			()
	A) ∠A>∠C	A	and AP DR are C		
	B) $\angle C > \angle A$	-89	S. and NAA.		
		100	07.0		
	C) $\angle B > \angle D$	в			
	D) Both A and C		· d data surito D ar 4	She has	taken
. 25.	Janaki while finding Mediar the scores as 3,6,4,7,5 by le is correct even though she le	aving one of the	score given. If the	answei)
	is contest - continengation		D)7		
	A) 4 B) 5	C) 6	D)/		

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