SUMMATIVE ASSISEMENT – 1, JANUARY - 2022

MATHEMATICS PAPER – 2

(Modal Paper – 2)

Class:	9 th	Max. N	/larks: 40	Time: 2hr 45 min	
Instruc	ructions to students:				
2. 3.	There is an internal Write all questions v	written in answer she choice in Section – Iv visible and legibly.) min given for writing		
		Secti	ion – 1		
Note: 1	L. Answer all question	ns			
2	2. Each question carri	es ½ mark.		20 × ½ = 10 M	
1.	One of the defined t	erms is			
	A) point	B) line	C) angle	D) solid	
2.	Which Euclid's postu	late represents the fo	ollowing figure?		
				$ \begin{array}{c} \uparrow^{x} \\ \downarrow^{2} \\ \downarrow^{2} \end{array} $	
	A) second	B) third	C) fourth	D) fifth	
3.	30 – 39, 40 – 49,	Classes are called	classes.		
	A) Exclusive	B) Inclusive	C) Boundaries	D) class mark	
4.	Choose the correct a	nswer following.			
	Statement P: Sum of supplementary angles is 180°.				
	Statement Q: Sum of three angles of a triangles is two right angles.				
	A) P true, Q false	B) P false, Q true	C) Both P, Q are true	D) Both P, Q are false	
5.	Mean of 1, 2, 3 and 2	x is 4. Then 'x' =			
	A) 4	B) 6	C) 10	D) 16	
6.	Number of circles ca	n be drawn from a giv	ven point is		
	A) 1	B) 2	C) 3	D) infinite	
7.	The average weight	of 5 packets is 24 kgs.	The average weight of	f another 10 packets is 12	
	kgs. Then the averag	ge weight of all 15 pac	kets is kgs.		
	A) 6	B) 16	C) 17	D) 18	

9. Match the following A. Complementary angles () i) 120°, 60° B. Supplementary angles () ii) 30°, 60° C. Conjugate angles () iii) 160°, 200° A) A – i, B – ii, C – iii B) A – ii, B – iii, C – i C) A – ii, B – i, C – iii D) A – iii, B – i, C – iii 10. In the adjacent figure, A) 35° B) 55° C) 140° D) 110° 11. Number of volumes in "The Elements" is A) 13 B) 23 C) 103 D) infinite 12. How many points can two distinct lines intersects at most A) 1 B) 2 C) 3 D) either 1 or 2 13. Mean of all prime numbers between 10 and 20 is A) 13 B) 15 C) 17 D) 19 14. For which of the following, mean and median are equal. A) 4, 4, 5 B) 4, 6, 5 C) 5, 4, 5 D) 0, 1, 3 15. Assertion: Mean depends on all observations. Reason: Mean = \$\frac{\text{Sum of all observations}}{\text{Number of observations}}} A) Assertion and reason are true but reason is the correct explanation of assertion. C) Assertion is false but reason is false. D) Assertion is false but reason is false. D) Assertion is false but reason is true. 16. Check for which of the following median is 3.5? A) 3, 6, 5, 3, 4, 3 B) 3, 5, 5, 3, 3, 5 C) 4, 3, 4, 5, 4, 3 D) 3, 4, 5, 6, 7, 8 17. AB and CD are two parallel lines. PQ cuts AB and CD at E and F respectively. EL is the bisector of ∠FEB. If ∠LEB = 35°, then ∠CFQ = A) 55° B) 70° C) 110° D) 130° 18. Given ∠PQR = 3x, ∠QOR = 2x + 10°. If POQ is a straight line, then 'x' = A) 30° B) 34° C) 36° D) 33°	8.	12.	5 is class mark of	the class.				
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B. Supplementary angles C. Conjugate angles () iii) 30°, 60° C. Conjugate angles () iii) 160°, 200° A) A – i, B – ii, C – iii B) A – ii, B – iii, C – i C) A – ii, B – i, C – iii D) A – iii, B – i, C – ii 10. In the adjacent figure, A) 35° B) 55° C) 140° D) 110° 11. Number of volumes in "The Elements" is A) 13 B) 23 C) 103 D) infinite 12. How many points can two distinct lines intersects at most A) 1 B) 2 C) 3 D) either 1 or 2 13. Mean of all prime numbers between 10 and 20 is A) 13 B) 15 C) 17 D) 19 14. For which of the following, mean and median are equal. A) 4, 4, 5 B) 4, 6, 5 C) 5, 4, 5 D) 0, 1, 3 15. Assertion: Mean depends on all observations. Reason: Mean = \frac{\sum of all observations}{\sum \sum of \sub \sum of \sub \sub \sum of \sub \sub \sum of \sub \sub \sub \sub \sub \sub \sub \sub	9.	Ma	itch the following	;				
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of \angle FEB. If \angle LEB = 35°, then \angle CFQ = A) 55° B) 70° C) 110° D) 130° 18. Given \angle PQR = 3x, \angle QOR = 2x + 10°. If POQ is a straight line, then 'x' =		A)	3, 6, 5, 3, 4, 3	B) 3, 5, 5, 3, 3, 5	C) 4	, 3, 4, 5, 4, 3	D) 3, 4, 5, 6, 7, 8	
A) 55° B) 70° C) 110° D) 130° 18. Given $\angle PQR = 3x$, $\angle QOR = 2x + 10^{\circ}$. If POQ is a straight line, then 'x' =	17.	AB	and CD are two p	parallel lines. PQ cu	ts AB ar	nd CD at E and	F respectively. EL is the bisect	or
18. Given $\angle PQR = 3x$, $\angle QOR = 2x + 10^{\circ}$. If POQ is a straight line, then 'x' =		of.	∠FEB. If ∠LEB = 3!	5°, then ∠CFQ =				
		A)	55 ⁰	B) 70°	C) 1	10 ⁰	D) 130°	
A) 30° B) 34° C) 36° D) 33°	18.	Giv	ren ∠PQR = 3x, ∠0	QOR = 2x + 10°. If P	OQ is a	straight line, t	hen 'x' =	
		A)	30 ⁰	B) 34 ⁰	C) 3	6º	D) 33 ⁰	

- 19. When number of observations 'n' is odd, then median is _____ observation.
 - A) $\left(\frac{n+1}{2}\right)^{th}$
- B) $\left(\frac{n-1}{2}\right)^{th}$ C) average of $\left(\frac{n}{2}\right)^{th}$ and $\left(\frac{n}{2}+1\right)^{th}$
- 20. An observation with maximum frequency is called ____
 - A) Mean
- B) Median
- C) Mode
- D) class mark

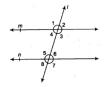
Section - II

Note: 1. Answer all the questions

2. Each question carries 1 mark.

 $4 \times 1 = 4 M$

- 21. What is a conjecture?
- 22. Write the pairs of corresponding angles in following figure?



- 23. An angle and its complementary angles are in the ratio 4:5. Find the angles?
- 24. Write the mark wise frequency in the following frequency distribution table.

Marks	5	Upto 6	Upto 7	Upto 8
No.of students	5	12	19	25

Section - III

Note: 1. Answer all the questions.

2. Each question carries 2 marks.

Statement

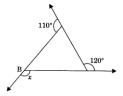
 $5 \times 2 = 10 \text{ M}$

- 25. In $\triangle ABC$, we have BX = $\frac{1}{2}AB$, BY = $\frac{1}{2}BC$ and AB = BC. Show that BX = BY. Write the axiom used in the proof?
- 26. Draw an equilateral triangle whose side is 5.2 cm?
- 27. It is given that $l \parallel m$ to prove $\angle 1$ is supplementary to $\angle 8$. Write reasons for the statements.

Reason

I)	$l \parallel m$	
II)	∠1 = ∠5	 $m \qquad 1 \qquad 1 \qquad 2$
III)	$\angle 5 + \angle 8 = 180^{\circ}$	 4/3
IV)	$\angle 1 + \angle 8 = 180^{\circ}$	 + $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$
V)	∠1 is supplementary to ∠8	 <i>↓</i>

28. Find the value of 'x' in the following figure?



29. The mean weight of three students is 40 kgs. One of the students Ranga weights 46 kgs. The other two students, Rahim and Reshma have same weight. Find the weight of Rahim?

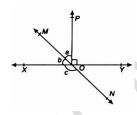
Section - IV

Note: 1. Answer all the questions.

- 2. Each questions carries 4 marks.
- 3. There is internal choice for each question.

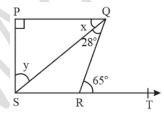
 $4 \times 4 = 16 \text{ M}$

30. In the given figure \overrightarrow{XY} and \overrightarrow{MN} intersect at 'O'. If $\angle POY = 90^{\circ}$ and a:b = 2:3, find 'c'?

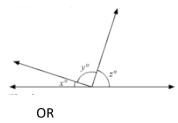


OR

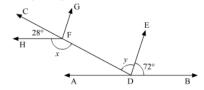
Find the values of the 'x' and 'y' from the following figure?



31. In the following figure $\frac{y}{x} = 5$ and $\frac{z}{x} = 4$. Then find the values of x, y and z?



Using the given information in the following figure, find the value of 'x' and 'y'.



32. The mean of the following data is 7.5, then find the value of 'A'?

Х	5	6	7	8	9	10
f	3	10	Α	18	8	4

OR

Test scores out of 100 for a class of 20 students are as follows;

- 93, 84, 97, 98, 100, 78, 86, 100, 85, 92, 55, 91, 90, 75, 94, 83, 60, 81, 95.
- A) Make a frequency table taking class interval 51 60, 61 70,
- B) Find the modal class.
- C) Find the class that contain the median.
- 33. Mean of 50 observations was found to be 80.4. But later on, it was discovered the 96 was misread as 69 at one place. Find the correct mean. If in each observation a constant value 'k' added, how is the mean affected?

OR

AFLATOUN social and financial educational program initiated savings program among the high school children in Hyderabad district. Mandal wise savings in a month are given in the following table.

Mandal	No. of schools	Total amount
Amberpet	6	2154
Thirumalgiri	6	2478
Saidabad	5	975
Khairathabad	4	912
Secundrabad	3	600

Find arithmetic mean of school wise savings in each Mandal. Also find the mean of saving of all schools.