केन्द्रीय विद्यालय संगठन कोलकाता संभाग

KENDRIYA VIDYALAYA SANGATHAN, KOLKATA REGION

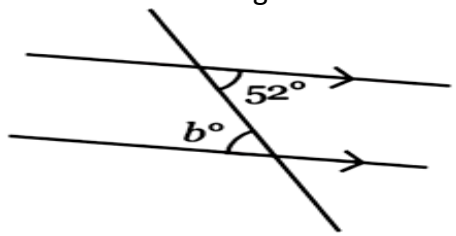
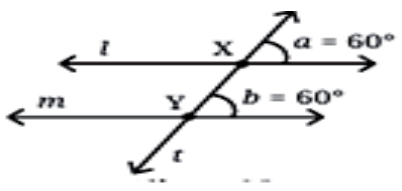
सत्रांत परीक्षा / SESSION ENDING EXAMINATION, 2025-26

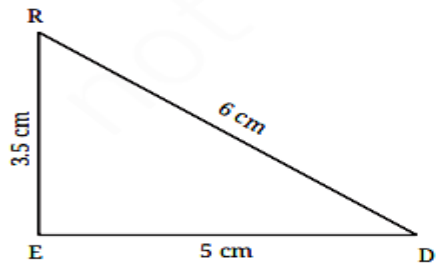
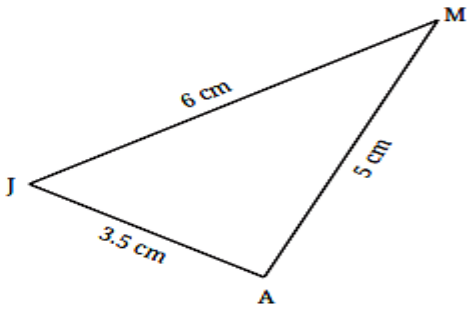
कक्षा / CLASS-VII अधिकतम अंक/Max. Marks: 60

विषय/Sub.: गणित / MATHEMATICS समय/Time: 2 ½ घंटे / Hrs.

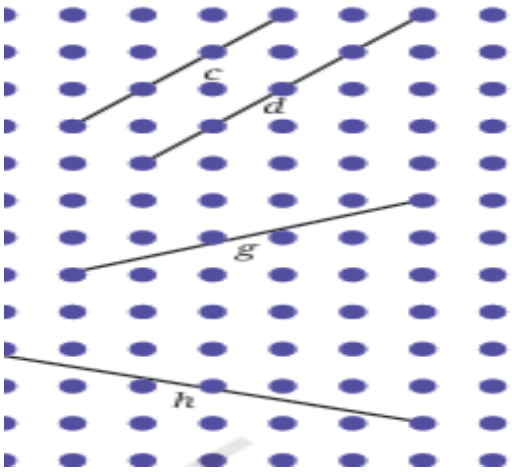
GENERAL INSTRUCTIONS:

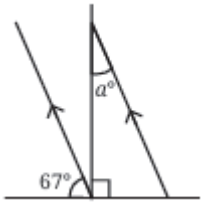
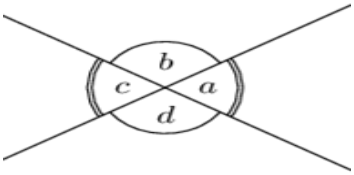
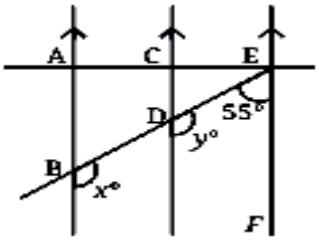
1. *All Questions are compulsory.*
2. *This Question Paper has 5 Sections A, B, C, D and E.*
3. *Section A has14 MCQs carrying 01 mark each.*
4. *Section B has 4 very short answer questions carrying 02 marks each.*
5. *Section C has 5 short answer questions carrying 03 marks each.*
6. *Section D has 3 Long answer questions carrying 05 marks each.*
7. *7 Section E has 2 Case Based questions carrying 04 marks each*
8. *Draw neat figures wherever required.*

Q.N	**SECTION – A**	M
1.	Find the marked angle b:  (a)32° (b)48° (c)52° (d)38°	1
2	Choose the expression that has always odd parity (a) 3n+1 (b) 5n -2 (c) 6n +2 (d) 2n +1	1
3.	In triangle ABC ∠A= 55° and ∠C= 75°.What will be the measurement of ∠B (a)20° (b)50° (c)60° (d)130°	1
4.	Maria bought 8 m of lace to decorate the bags she made for school. She used $\frac{1}{4}$m for each bag and finished the lace. How many bags did she decorate? a)$8\times\frac{1}{4}$ b) $\frac{1}{4}\times\frac{1}{8}$ c) $8\div\frac{1}{4}$ d) $\frac{1}{4}\div 8$	1
5.	ΔABC is isosceles with AB = AC, and ∠A = 80°. What is the measurement of ∠B? (a)40° (b)50° (c)60° (d)100°	1
6.	The Average or Arithmetic Mean (A.M.), of first five whole numbers is : a) 2 b) 3 c) 5 d) 10	1
7.	In the given figure ∠a = ∠b ,because these are:  a) Corresponding angles b) Alternate interior angles c) Vertically opposite angles d) None of these.	1

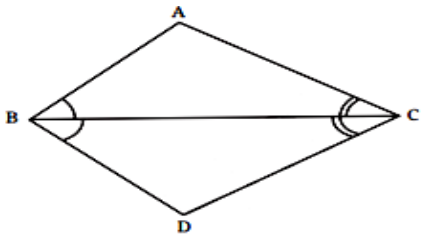
8.	What is the next number in the sequence: 1, 2, 3, 5, 8, 13, 21, 34 , 55, 89, ____ (a) 134 (b) 144 (c) 154 (d) 174	1
9	In a ∆ABC, BE is the perpendicular on AC. Then, altitude of a triangle is a) BC b) AB c) AC d) BE	
10.	  In the given figure ΔDER ≅ Δ_____ a) AMJ b) MAJ c) JMA d) MJA	1
11.	The table shows the monthly price of onions, in rupees per kilogram (kg), at two towns. The difference between the price of onions in Yahapur and Wahapur of the month November: a) 3 b) 6 c) 7 d) 17	1
12	In the figure given below ,Identify the pair of Parallel lines: (a) d ‖ g (b) c ‖ g (c) c ‖ d (d)g ‖ h	
13	Which of the following pair can be the angles of a triangle (a) 90°,92° (b) 150°,30° (c) 60°,40° (d) 130°, 70°	
14	The Median of the given Data, 2,3,7,3,6,7,9 is a) 3 b) 6 c) 7 d) 9	

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Yahapur	25	24	26	28	30	35	39	43	49	56	59	44
Wahapur	19	17	23	30	38	35	42	39	53	60	52	42



	SECTION – B	
15	Find the value of a  	2
16	Check if a triangle exists for each of the following set of lengths: (a) 3, 6, 9 (b) 5, 10, 12	2
17	Evaluate the following: a) $\frac{8}{3} \times \frac{7}{16}$ $b)$ $\frac{4}{3} \div \frac{2}{3}$	2
18	Write all the pairs of vertically opposite angles :  	2
	SECTION – C	
19	In given figure AB is parallel to CD and CD is parallel to EF. Also, EA is perpendicular to AB. If ∠BEF = 55°, find the values of x and y.  	3
20	Make a 3 × 3 magic square with 0 as the magic sum. All numbers cannot be zero. Use negative numbers, as needed.	3
21	Mira is reading a novel that has 400 pages. She read $\frac{1}{5}$ of the pages yesterday and $\frac{3}{10}$ of the pages today. How many more pages does she need to read to finish the novel?	3
22	ΔAIR ≅ ΔFLY. Identify the corresponding vertices, sides and angles.	3
23	Consider this data collected from a survey of a colony: Choose an appropriate scale and draw a double-bar graph.	3

Favourite sport	Cricket	Basket ball	Swimming	Hockey
Watching	1240	470	510	430
Participating	620	320	320	250

	SECTION - D	
24	(a) Construct a triangle for the measurements: 75°, 5 cm, 75° (b) Is it possible to construct an isosceles triangle that is (i) right-angled (ii) obtuse-angled?	5
25	(a)Solve these cryptarithms: $\begin{array}{r} B5 \\ +\ 3D \\ \hline ED5 \end{array}$ $\qquad$ $\begin{array}{r} KP \\ +\ KP \\ \hline PRR \end{array}$ (b) A light bulb is ON. Dorjee toggles its switch 77 times. Will the bulb be on or off? Why?	5
26	Given that ∠ABC = ∠DBC and ∠ACB = ∠DCB, show that ∠BAC = ∠BDC. Are the two triangles congruent?  	5
	SECTION - E	
27	Priya can run 5 kilometres in 2 hours while her pet dog runs at a faster pace. Dog can run $3\frac{1}{4}$ kilometre in 1 hour. i) How far can dog run in 4 hours? ii) How far can Priya run in 1 hour? iii) a) How far can dog run in $\frac{1}{2}$ hours? OR b) Find the total distance covered by Priya and her pet in 4 hours?	4
28	The following table shows the points scored by each player in four games: Player | Game1 | Game2 | Game3 | Game 4 A | 14 | 16 | 10 | 10 B | 0 | 8 | 6 | 4 C | 8 | 11 | Did not play | 13 Now answer the following questions: (i) Find the average number of points scored per game by A. (ii) Find the average number of points scored per game by B. (iii) (a) To find the mean number of points scored per game by C, would you divide the total points by 3 or by 4? Why? OR (b) Who is the best performer? Why?	4

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