INDIAN SCHOOL AL WADI AL KABIR

Pre-Mid-Term Examination (2024-25)

Sub: MATHEMATICS

Class: VIII | Max Marks: 30

Date: 04/06/2024 | Set -I | Time: 1 hour

Instructions:

Section A: Multiple Choice Questions (Q.1 to Q.8)

Section B: Source based questions (Q.9 to Q.12)

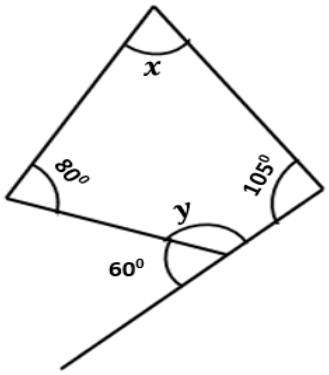
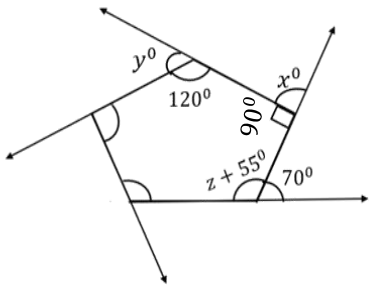
Section C: Long Answer Questions (Q.13 to Q.16)

Section D: 4 Marks questions & Case study (Q.17 to Q.18).

NOTE: This question paper consists of **3** printed pages.

Section A: Multiple Choice Question (Q.1 to Q.8) of **1** mark each								
1.	$3 \times 10^5 + 1 \times 10^3 + 2 \times 10^2 + 5 \times 10^1 + 8 \times 10^0 + 2 \times 10^{-2}$ is equal to							
	A	31258.02	**B**	31258.2	**C**	301258.2	**D**	301258.02
2.	The product of $\frac{13}{15}$ and additive inverse of $\frac{-5}{26}$							
	A	$\frac{-5}{13}$	**B**	$\frac{-2}{15}$	**C**	$\frac{1}{6}$	**D**	$\frac{1}{25}$
3.	The value of $\left\{\frac{7}{5} \times \left(\frac{-3}{11}\right)\right\} + \left\{\frac{7}{5} \times \frac{4}{11}\right\}$							
	A	$\frac{7}{55}$	**B**	$\frac{-12}{11}$	**C**	$\frac{49}{11}$	**D**	$\frac{-21}{55}$
4.	The angle sum of a convex polygon with number of sides 9 is:							
	A	900	**B**	1080	**C**	1260	**D**	1440
5.	Name the property illustrated: $\frac{-35}{8} \times \frac{9}{11} = \frac{9}{11} \times \frac{-35}{8}$							
	A	Associative property	**B**	Commutative property	**C**	Distributive property	**D**	Closure property

6.	$\{2^6 \div 2^3\} + 2^0$ is equal to						
	A	8	**B**	9	**C**	3	**D**	0
7.	If the three angles of a quadrilateral are 70°, 110° and 80°, then what is the measure of its fourth angle?						
	A	$60°$	**B**	$100°$	**C**	$80°$	**D**	$70°$
8.	The sum of all interior angles of a regular octagon is 1080^0. The measure of each interior angle is:						
	A	180^0	**B**	53^0	**C**	135^0	**D**	45^0
	Section B: Source based questions (Q.9 to Q.12) of 1 mark each Teacher took the students of class 8 to the junior bio lab. It was a class related to view very small things through the micro scope and compare the size of the small objects which is visible through our eyes. While the experiment was going on, Gourav, Neena and Bibin are started telling the numbers using powers and exponents.						
9.	The average diameter of a Red Blood cell is 0.0000072 m. The standard form 0.0000072 m is:						
	A	7.2×10^{-6}	**B**	0.72×10^6	**C**	72.0×10^{-5}	**D**	7.2×10^7
10.	In an experiment, they used $5^{-5}\ ml$ of solution A and $5^2\ ml$ of solution B. Then $\{5^{-5} \times 5^2\} =$ _____.						
	A	5^3	**B**	5^{-7}	**C**	5^{-5}	**D**	5^{-3}
11.	A crystal of sodium chloride of weight 2^4 milligrams is used in the lab for an experiment. The multiplicative inverse of 2^4 is:						
	A	2^{-4}	**B**	$\left(\frac{1}{2}\right)^{-4}$	**C**	16	**D**	(-16)
12.	The size of the plant cell is 3.275×10^{-5}. The usual form the given number can be written as:						
	A	327500000	**B**	0.00003275	**C**	327.500000	**D**	0.000003275

	Section C: Long Answer Questions (Q13 to Q.16)	
13.	Calculate the value of $'m'$ if $11^{2m+1} \times 11^4 = 11^{17}$ (Show working)	(2m)
14.	Find the values of x and y. (Show working) 	(2m)
15.	Simplify: $\frac{125 \times t^{-5} \times 3^{-3}}{5^2 \times 3^{-5} \times t^{-10}}$ $(t \neq 0)$	(3m)
16.	Represent $\frac{-3}{5}, 0, \frac{1}{5}, \frac{2}{5}$ on the same number line.	(3m)
	Section D: Long Answer Question of 4 marks &Case study (Q.17 & Q.18)	
17.	Insert 4 rational numbers between $\frac{5}{7}$ and $\frac{4}{5}$.	
18.	**Case Study:** Shyama regularly go for an evening walk in a garden near seashore. In the garden, there is a sitting area which is in a pentagonal shape. Observe the adjoining figure and answer the following questions: a) Find the values of x, y & z b) How many diagonals does a pentagon have?	 

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