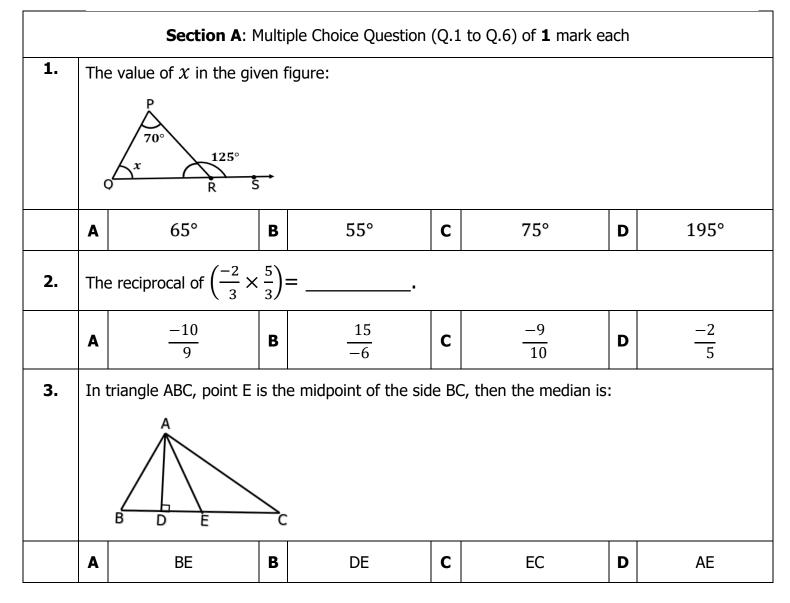


INDIAN SCHOOL AL WADI AL KABIR

Post Mid-Term Examination (2023-24)

Class: VII	Sub: MATHEMATICS	Max Marks: 30					
Date: 26-11-2023	Set-I	Time: 1 hour					
Instructions:							
Section A: Multiple Choice Questions (Q.1 to Q.6)							
Section B: Source based questions (Q.7 to Q.11)							
Section C: Long Answer Questions (Q.12 to Q.15)							
Section D: Case study Questions (Q.16 to Q.17).							

Note: This question paper consists of 04 printed pages.



4.	Which of the following is equivalent to $\frac{28}{48}$?							
	A	$\frac{2}{4}$	В	$\frac{14}{12}$	С	$\frac{7}{12}$	D	$\frac{4}{7}$
5.	In a triangle, two angles are 46° and 76° . Then the measure of third angle is:					:		
	A	58°	В	120°	С	116°	D	30°
6.	The sum of $\frac{5}{4} + \frac{-25}{4}$ is							
	A	-20	В	-5	С	5	D	30
	Section B: Source based questions (Q.7 to Q.11) of 1 mark each							
	Ram bought a rhombus shaped land. The adjoining figure show the outline of the land. The diagonals of the rhombus $DB = 10$ m and $AC = 24$ m. Based on this context answer the following questions:				A 24 m 0 C			
7.	If the length of the diagonal AC =24 m, then the length of OC=							
	A	10 m	В	5 m	С	20 m	D	12 m
8.	The measure of the $\angle COD =$							
	A	50°	В	90°	С	180°	D	45°

9.	To find the side of the given rhombus which property can be used?							
	A	Angle sum property	В	Exterior angle property	С	Pythagoras property	D	Inequality property
10.	What is the length of the side DC?							
	A	34 m	В	13 m	С	14 m	D	5 m
11.	The perimeter of the rhombus shaped land ABCD							
	Α	52 m	В	169 m	С	240 m	D	196 m
		Secti	on	C : Long Answer Que	stior	ns (Q12 to Q.15)		
12.	Evaluate the following and write the answer in standard form: (2 marks) $\frac{3}{-13} \div \frac{5}{26}$							
13.		by the table and write marks)		missing reasons:		Statements i) KL = KN ii) LM = NM iii) KM =KM		Reason i) ii) iii)
14.	Rei	present the following	-	5 cm N		iv) $\Delta \text{ KML} \cong \Delta \text{KMN}$		iv)
17.	Represent the following rational numbers on a number line. (3 marks) $\frac{-3}{4}$, $\frac{2}{4}$, 1 and $\frac{-1}{4}$							
15.	Wr	Write any four rational numbers between $\frac{3}{5}$ and $\frac{1}{2}$ (4 marks)						

	Section D: Case study (Q.16 & Q.17) of 4 marks each
16.	Case Study-1:
	Manisha and Anisha were making triangular shaped greeting cards for Diwali celebrations. Observe the adjoining figure and answer the following questions:
	i)Which criterion can be used to prove $\Delta YXZ \cong \Delta BCA$,?ii)The measure of AC=iii) $m \angle ACB =$ iv) $m \angle Y =$
17.	Case Study-2:
	The Planning commission ordered to make three tunnels for the sewage water connections to connect three cities (E, G and F) in a state. Also, they told there must be a common point D, such that one can view all the three cities through the tunnels. So, they made an outline diagram for that. Based on this, answer the following questions:
	i) If DE = DF, What type of triangle is Δ DEF ?
	ii) Find the value of the missing angles a, b and c .
