INDIAN SCHOOL SOHAR　　　　　　　　　　**SET I**

PERIODIC TEST I (2024-2025)

MATHEMATICS

CLASS: VIII　　　　　　　　　　　　　　　　　**MAX. MARKS: 20**

DATE: 21/05/2024　　　　　　　　　　　　　　**TIME: 40 MINUTES**

General Instructions:

1. This question paper contains four sections A, B, C and D. Each section is compulsory. However, there are internal choices in some questions.
2. Section A has 4 MCQ and 1 Assertion-Reason based questions of 1 mark each.
3. Section B has 2 Very Short Answer (VSA)-type questions of 2 marks each.
4. Section C has 2 Short Answer (SA)-type questions of 3 marks each.
5. Section D has 1 Long Answer (LA)-type question of 5 marks .

	SECTION – A [This section comprises of multiple choice questions (MCQ) of 1 mark each]
1.	Which property allows you to compute $\frac{-2}{3} + \left(\frac{1}{10} + \frac{4}{9}\right)$ as $\left(\frac{-2}{3} + \frac{1}{10}\right) + \frac{4}{9}$? A) Closure　　　　B) Commutativity　　　C) Associativity　　　D) Distributivity
2.	If 9x = 20 + 4x, then the value of x is A) –4　　　　　B) 4　　　　　C) $\frac{-20}{11}$　　　　　D) $\frac{20}{11}$
3.	The regular polygon of 3 sides is A) a scalene triangle　　　　　　　B) an isosceles triangle C) a right triangle　　　　　　　　　D) an equilateral triangle
4.	The additive identity for rational numbers is A) 0　　　　　　B) 1　　　　　　C) –1　　　　　　D) none of these
5.	A statement of assertion is followed by a statement of reason. Choose the correct option. **Assertion (A) : Sum of all interior angles of any polygon is 360°.** **Reason (R) : Sum of all exterior angles of any polygon is 360°.** A) Both **Assertion** and **Reason** are true, and **Reason** is the correct explanation for **Assertion**. B) Both **Assertion** and **Reason** are true, but **Reason** is not the correct explanation for **Assertion**. C) **Assertion** is true, but **Reason** is false. D) **Assertion** is false, but **Reason** is true.
	SECTION – B [This section comprises of very short answer type questions (VSA) of 2 marks each]
6.	Solve for x :　　　　15(x – 3) – 3(x – 7) + 2(x + 5) = 0 **OR** Solve for n:　　 $\frac{n}{4} + \frac{1}{2} = \frac{n}{6} - 2$
7.	Find $\frac{-6}{7}$ x $\frac{4}{5}$ x $\frac{15}{16}$ x $\frac{-14}{9}$

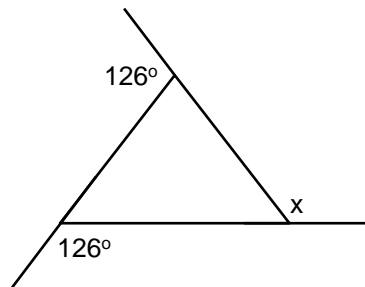|	**SECTION – C** [This section comprises of short answer type questions (SA) of 3 marks each]	
8.	Simplify using distributivity $\left(\frac{-2}{3} \text{ x } \frac{5}{6}\right) + \left(\frac{-2}{3} \text{ x } \frac{-4}{3}\right)$	
9.	Solve for t: $\qquad \dfrac{3t-2}{4} - \dfrac{2t+3}{3} = \dfrac{2}{3} - t$ **OR** Solve for m: $\qquad m - \dfrac{m-1}{2} = 1 - \dfrac{m-2}{3}$	

	SECTION – D [This section comprises of long answer type question (LA) of 5 marks]	
10. a)	Find the value of x $\qquad\qquad\qquad\qquad\qquad\qquad\qquad$ [3 marks] 126° x 126°	
b)	Find the measure of each exterior angle of a regular polygon of 18 sides. [2 marks]	
	OR	
a)	Simplify and express in the form $\dfrac{p}{q}$ $\qquad\qquad\qquad\qquad$ [3 marks] $\dfrac{2}{3} + \dfrac{5}{6} + \dfrac{-7}{9}$	
b)	Find $\qquad \dfrac{21}{25} \div \dfrac{-35}{15}$ $\qquad\qquad\qquad\qquad\qquad\qquad$ [2 marks]	