

PERIODIC ASSESSMENT-III (2023-24) MATHEMATICS (CODE-041)

CLASS: IX DATE: 16/01/24

MAX. MARKS: 20 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's and 1 Assertion-Reason based questions of 1 mark each.
- 3. Section B has 2 Very Short Answer (VSA)-type questions of 2 mark each.
- 4. Section C has 2 Short Answer (SA)-type questions of 3 mark each.
- 5. Section D has 1 Long Answer (LA)-type questions of 5 marks.

SECTION – A	
	(Multiple Choice Questions) Each question carries 1 mark
1.	If x – 2 is a factor of $2x^3 + x^2 - 4x + m$, then the value of m is
	(a) -12 (b) 12 (c) 10 (d) -10
2.	The value of the polynomial $6x + 12x^2 - 4$ at x=0 is
	(a) 6 (b) 12 (c) 4 (d) – 4
3.	The two diagonals are equal in a
	(a) rhombus (b) trapezium (c) parallelogram (d) rectangle
4.	The bisectors of any two adjacent angles of a parallelogram intersect at,
	(a) 90° (b) 30° (c) 45° (d) None of the above.
5.	Assertion(A): In the given figure, $\angle ABC = 70^{\circ}$ and $\angle ACB = 30^{\circ}$. Then, $\angle BDC = 80^{\circ}$.
	A
	$-(270^{\circ} 30^{\circ})$
	$B \xrightarrow{B \times V \times C} C$
	Reason(R): Angles in the same segment of a circle are equal.
	Directions: Choose the correct answer out of the following choices:
	(a)Both Assertion (A) and Reason(R) are true and Reason(R) is the correct explanation of the
	Assertion(A).
	(b)Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of the
	Assertion (A).
	(c)Assertion (A) is true, but Reason (R) is false.
	(d)Assertion (A) is false, but Reason (R) is true.
SECTION – B	
	[This section comprises of very short answer type questions (VSA) of 2 marks each]
6.	Prove that equal chords subtend equal angles at the center.
	OR
	In the given figure, $\triangle ABC$ is equilateral. Find $\angle BDC$ and $\angle BEC$.
	B

