

PRACTICE PAPER (SESSION 2023 – 24)
ANNUAL EXAMINATION
CLASS XI
MATHEMATICS (CODE: 041)

Time Allowed: 3 HOURS

Maximum Marks: 80

General Instructions:

1. This question paper contains FIVE sections – A, B, C, D & E. Each part is compulsory. However, there are internal choices in some questions.
2. Section A has 18 MCQ's and 02 Assertion-Reason based questions of 1 mark each.
3. Section B has 5 Very Short Answer (VSA)-type questions of 2 marks each.
4. Section C has 6 Short Answer (SA)-type questions of 3 marks each.
5. Section D has 4 Long Answer (LA)-type questions of 5 marks each.
6. Section E has 3 source based/case based/passage based/integrated units of assessment (4 marks each) with sub parts.

SECTION – A (Multiple Choice Questions) Each question carries 1 mark Each MCQ has four options with only one correct option, choose the correct option.		
1.	For all sets A & B , $A \cap (A \cup B) =$ (a) A (b) B (c) $A \cup B$ (d) $A \cap B$	1
2.	The value of the expression $\frac{4 \cos^3 10^\circ - 3 \cos 10^\circ}{3 \sin 20^\circ - 4 \sin^3 20^\circ}$ is (a) 1 (b) 0 (c) -1 (d) 2	1
3.	Range of function $f(x) = \frac{x - 2024}{ x - 2024 }$ is (a) R (b) $R - \{2024\}$ (c) $\{1\}$ (d) $\{1, -1\}$	1
4.	If $A = \{2023, 2024\}$ & $B = \{x : x^2 - x = 0, x \in R\}$, then $n(A \times B) =$ (a) 4 (b) 6 (c) 8 (d) 16	1

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