

Class – XII
MATHEMATICS- 041
SAMPLE QUESTION PAPER 2019-20

Time: 3 Hrs.

Maximum Marks: 80

General Instructions:

- (i) All the questions are compulsory.
- (ii) The question paper consists of 36 questions divided into 4 sections A, B, C, and D.
- (iii) Section A comprises of 20 questions of 1 mark each. Section B comprises of 6 questions of 2 marks each. Section C comprises of 6 questions of 4 marks each. Section D comprises of 4 questions of 6 marks each.
- (iv) There is no overall choice. However, an internal choice has been provided in three questions of 1 mark each, two questions of 2 marks each, two questions of 4 marks each, and two questions of 6 marks each. You have to attempt only one of the alternatives in all such questions.
- (v) Use of calculators is not permitted.

SECTION A		
Q1 - Q10 are multiple choice type questions. Select the correct option		
1	If A is any square matrix of order 3×3 such that $ A = 3$, then the value of $ \text{adj}A $ is ? (a) 3 (b) $\frac{1}{3}$ (c) 9 (d) 27	1
2	Suppose P and Q are two different matrices of order $3 \times n$ and $n \times p$, then the order of the matrix $P \times Q$ is? (a) $3 \times p$ (b) $p \times 3$ (c) $n \times n$ (d) 3×3	1
3	If $(2\hat{i} + 6\hat{j} + 27\hat{k}) \times (\hat{i} + p\hat{j} + q\hat{k}) = \vec{0}$, then the values of p and q are ? (a) $p=6, q=27$ (b) $p=3, q=\frac{27}{2}$ (c) $p=6, q=\frac{27}{2}$ (d) $p=3, q=27$	1
4	If A and B are two events such that $P(A)=0.2$, $P(B)=0.4$ and $P(A \cup B)=0.5$, then value of $P(A/B)$ is ? (a) 0.1 (b) 0.25 (c) 0.5 (d) 0.06	1
5	The point which does not lie in the half plane $2x + 3y - 12 \leq 0$ is (a) (1,2) (b) (2,1) (c) (2,3) (d) (-3,2)	1
6	If $\sin^{-1} x + \sin^{-1} y = \frac{2\pi}{3}$, then the value of $\cos^{-1} x + \cos^{-1} y$ is _____ (a) $\frac{2\pi}{3}$ (b) $\frac{\pi}{3}$ (c) $\frac{\pi}{2}$ (d) π	1

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