

## SAMPLE QUESTION PAPER

Class:-XII

Session 2023-24

Mathematics (Code-041)

Time: 3 hours

Maximum marks: 80

### General Instructions:

1. This Question paper contains - five sections **A, B, C, D** and **E**. Each section 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 of 4 marks each with sub-parts.
- 

### Section – A

(Multiple Choice Questions)

Each question carries 1 mark

Q1. If  $A = [a_{ij}]$  is a square matrix of order 2 such that  $a_{ij} = \begin{cases} 1, & \text{when } i \neq j \\ 0, & \text{when } i = j \end{cases}$ , then  $A^2$  is

(a)  $\begin{bmatrix} 1 & 0 \\ 1 & 0 \end{bmatrix}_{2 \times 2}$

(b)  $\begin{bmatrix} 1 & 1 \\ 0 & 0 \end{bmatrix}_{2 \times 2}$

(c)  $\begin{bmatrix} 1 & 1 \\ 1 & 0 \end{bmatrix}_{2 \times 2}$

(d)  $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}_{2 \times 2}$

Q2. If  $A$  and  $B$  are invertible square matrices of the same order, then which of the following is not correct?

(a)  $|AB|^{-1} = \frac{|A|}{|B|}$

(b)  $|(AB)^{-1}| = \frac{1}{|A| |B|}$

(c)  $(AB)^{-1} = B^{-1}A^{-1}$

(d)  $(A+B)^{-1} = B^{-1} + A^{-1}$

Q3. If the area of the triangle with vertices  $(-3, 0)$ ,  $(3, 0)$  and  $(0, k)$  is 9 sq units, then the value/s of  $k$  will be

(a) 9

(b)  $\pm 3$

(c) -9

(d) 6

Q4. If  $f(x) = \begin{cases} kx, & \text{if } x < 0 \\ [x], & \text{if } x \geq 0 \end{cases}$  is continuous at  $x = 0$ , then the value of  $k$  is

(a) -3

(b) 0

(c) 3

(d) any real number

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