

# Sample Question Paper-1

(Issued by CBSE on 31st March 2023)

## MATHEMATICS

Class- XII, Session: 2023-24

### SOLVED

Time Allowed: 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 2 marks 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

1. 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)  $\begin{bmatrix} 1 & 0 \\ 0 & 0 \end{bmatrix}_{2 \times 2}$  (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)  $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}_{2 \times 2}$
2. If A and B are invertible square matrices of the same order, then which of the following is not correct?
- (A)  $|ABY^{-1}| = \frac{|A|}{|B|}$  (B)  $|(AB)^{-1}| = \frac{1}{|A||B|}$  (C)  $(AB)^{-1} = B^{-1}A^{-1}$  (D)  $(A + BY^{-1})^{-1} = B^{-1} + A^{-1}$
3. If the area of the triangle with vertices  $(-3, 0)$ ,  $(3, 0)$  and  $(0, k)$  is 9 sq. units, then the values of k will be
- (A) 9 (B)  $\pm 3$  (C) -9 (D) 6
4. If  $f(x) = \begin{cases} \frac{ka}{|x|}, & \text{if } x < 0 \\ x, & \text{if } x \geq 0 \end{cases}$ , is continuous at  $x = 0$ , then the value of k is
- (A) -3 (B) 0 (C) 3 (D) any real number
5. The lines  $\vec{r} = \vec{i} + \vec{j} - \vec{k} + \lambda(2\vec{i} + 3\vec{j} - 6\vec{k})$  and  $\vec{r} = 2\vec{i} - \vec{j} - \vec{k} + \mu(6\vec{i} + 9\vec{j} - 18\vec{k})$  (where  $\lambda, \mu$  are scalars) are
- (A) coincident (B) skew (C) intersecting (D) parallel
6. The degree of the differential equation  $\left[1 + \left(\frac{dy}{dx}\right)^2\right]^{\frac{3}{2}} = \frac{d^2y}{dx^2}$  is
- (A) 4 (B)  $\frac{3}{2}$  (C) 2 (D) Not defined
7. The corner points of the bounded feasible region determined by a system of linear constraints are  $(0, 3)$ ,  $(1, 1)$  and  $(3, 0)$ . Let  $Z = px + qy$ , where  $p, q > 0$ . The condition on  $p$  and  $q$  so that the minimum of  $Z$  occurs at  $(3, 0)$  and  $(1, 1)$  is
- (A)  $p = 2q$  (B)  $p = \frac{q}{2}$  (C)  $p = 3q$  (D)  $p = q$

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