

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 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

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) $\begin{bmatrix} 1 & 0 \\ 1 & 0 \end{bmatrix}_{2 \times 2}$ (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) $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}_{2 \times 2}$
2. 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) $(A+B)^{-1} = B^{-1} + A^{-1}$
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) ± 3 (C) -9 (D) 6
4. If $f(x) = \begin{cases} \frac{kx}{|x|}, & \text{if } x < 0 \\ 3, & \text{if } x \geq 0 \end{cases}$, is continuous at $x = 0$, then the value of k is
(A) -3 (B) 0 (C) 3 (D) any real number
5. The lines $\vec{r} = \hat{i} + \hat{j} - \hat{k} + \lambda(2\hat{i} + 3\hat{j} - 6\hat{k})$ and $\vec{r} = 2\hat{i} - \hat{j} - \hat{k} + \mu(6\hat{i} + 9\hat{j} - 18\hat{k})$, (where λ & μ 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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