

**UNIT TEST - I (2021-22)**  
**CLASS – XII**  
**MATHEMATICS**

**M.M: 20**

**Instructions: All questions are compulsory.**

**A. Choose the correct option (Multiple Choice Questions).**

**1 × 2 = 2**

1. If a, b, c are non zero real numbers, then the inverse of matrix  $A = \begin{bmatrix} a & 0 & 0 \\ 0 & b & 0 \\ 0 & 0 & c \end{bmatrix}$  is

(a)  $\frac{1}{abc} \begin{bmatrix} a & 0 & 0 \\ 0 & b & 0 \\ 0 & 0 & c \end{bmatrix}$  (b)  $\begin{bmatrix} \frac{1}{a} & 0 & 0 \\ 0 & \frac{1}{b} & 0 \\ 0 & 0 & \frac{1}{c} \end{bmatrix}$  (c)  $\frac{1}{abc} \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$  (d) none of these.

2. If A and B are two matrices such that  $AB = A$  and  $BA = B$ , then  $B^2$  is equal to

(a) A (b) B (c) I (d) none of these.

**B. Very Short Answer Questions.**

**1 × 3 = 3**

1. If  $A = [a_{ij}]$  is square matrix of order  $3 \times 3$  such that  $a_{ij} = i^2 - j^2$  then find A.

2. Given  $A = \begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix}$  and  $A^{100} = 2^k A$ , then find k.

3. If A is a square matrix such  $A^2 = A$ , then write the value of  $7A - (I+A)^3$ , where I is identity matrix.

**C. Short Answer Questions Type-I**

**2 × 2 = 4**

1. If  $A = \begin{bmatrix} 3 & -2 \\ 4 & -2 \end{bmatrix}$  and  $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ , find k so that  $A^2 = kA - 2I$ .

2. If the ad joint of a matrix P is  $\begin{bmatrix} 1 & 4 & 4 \\ 2 & 1 & 7 \\ 1 & 3 & 3 \end{bmatrix}$ , then find the values of the determinant of P.

**D. Short Answer Questions Type-II**

**3 × 2 = 6**

1. If A and B are symmetric matrices, prove that  $AB - BA$  is a skew symmetric matrix.

2. Using cofactors of elements of third column, evaluate  $\Delta = \begin{vmatrix} 1 & x & yz \\ 1 & y & zx \\ 1 & z & xy \end{vmatrix}$ .

**E. Long Answer question.**

**5 × 1 = 5**

1. If  $A = \begin{bmatrix} 1 & 2 & 0 \\ -2 & -1 & -2 \\ 0 & -1 & 1 \end{bmatrix}$ , find  $A^{-1}$ .

Hence Solve the system of equations  $x - 2y = 10$ ,  $2x - y - z = 8$ ,  $-2y + z = 7$ .

# Mathematics Unit Test

**K Morrison**



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