

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. 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 $1 \times 2 = 2$

- (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.

$1 \times 3 = 3$

1. If $A = [a_{ij}]$ is square matrix of order 3×3 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 $7A - (I+A)^2$, where I is identity matrix.

C. Short Answer Questions Type-I

$2 \times 2 = 4$

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

$3 \times 2 = 6$

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.

$5 \times 1 = 5$

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

L Reisser



Mathematics Unit Test:

The book delves into Mathematics Unit Test. Mathematics Unit Test is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Mathematics Unit Test, encompassing both the fundamentals and more intricate discussions.

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- Chapter 1: Introduction to Mathematics Unit Test
- Chapter 2: Essential Elements of Mathematics Unit Test
- Chapter 3: Mathematics Unit Test in Everyday Life
- Chapter 4: Mathematics Unit Test in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Mathematics Unit Test. This chapter will explore what Mathematics Unit Test is, why Mathematics Unit Test is vital, and how to effectively learn about Mathematics Unit Test.

3. In chapter 2, the author will delve into the foundational concepts of Mathematics Unit Test. This chapter will elucidate the essential principles that must be understood to grasp Mathematics Unit Test in its entirety.

4. In chapter 3, the author will examine the practical applications of Mathematics Unit Test in daily life. This chapter will showcase real-world examples of how Mathematics Unit Test can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Mathematics Unit Test in specific contexts. This chapter will explore how Mathematics Unit Test is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Mathematics Unit Test. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Mathematics Unit Test.

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