

I Semester B.C.A. Examination, May/June 2022
(NEP Scheme)
MATHEMATICS
Mathematical Foundation

Time : 2½ Hours

Max. Marks : 60

Instruction : Answer all the Sections.

SECTION – A

Answer any six of the following questions.

(6×2=12)

1. Write the truth table for the proposition $\sim (p \wedge q)$.
2. Define proposition. Give an example.
3. If $A = \{1, 2, 3, 4\}$ and $B = \{3, 4, 5, 6\}$, find $A \cap B$ and $A \cup B$.
4. If $A = \{1, 2, 3\}$, $B = \{a, b, c, d\}$ and $R = \{(1, a), (1, c), (2, d), (2, c)\}$, find R^{-1} and Range of R .
5. If $A = \begin{bmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \end{bmatrix}$ and $B = \begin{bmatrix} 2 & 0 & 1 \\ 1 & 1 & 0 \end{bmatrix}$, find $2A + B$.
6. Define square matrix. Give an example.
7. Find the value of $\begin{vmatrix} 1 & 6 & 7 \\ 2 & 3 & 0 \\ 0 & 1 & 4 \end{vmatrix}$.
8. If $y = 2x^3 - 9x^2 + 12x + 7$ then find $\frac{dy}{dx}$ and $\frac{d^2y}{dx^2}$.
9. Evaluate $\lim_{x \rightarrow 0} \frac{\sin 3x}{x}$.

SECTION – B

Answer any four of the following questions.

(4×6=24)

10. Prove that $[p \rightarrow (q \wedge r)] \rightarrow (p \rightarrow q) \wedge (p \rightarrow r)$ is a tautology.
11. If $A = \{1, 4\}$, $B = \{2, 3, 6\}$, $C = \{2, 3, 7\}$. Show that $A \times (B - C) = (A \times B) - (A \times C)$.

P.T.O.

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Table of Contents Mathematics Hons Question From Burdwan University

1. Understanding the eBook Mathematics Hons Question From Burdwan University
 - The Rise of Digital Reading Mathematics Hons Question From Burdwan University
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Hons Question From Burdwan University
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathematics Hons Question From Burdwan University
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Hons Question From Burdwan University
 - Personalized Recommendations
 - Mathematics Hons Question From Burdwan University User Reviews and Ratings
 - Mathematics Hons Question From Burdwan University and Bestseller Lists
5. Accessing Mathematics Hons Question From Burdwan University Free and Paid eBooks
 - Mathematics Hons Question From Burdwan University Public Domain eBooks
 - Mathematics Hons Question From Burdwan University eBook Subscription Services
 - Mathematics Hons Question From Burdwan University Budget-Friendly Options
6. Navigating Mathematics Hons Question From Burdwan University eBook Formats

- ePub, PDF, MOBI, and More
 - Mathematics Hons Question From Burdwan University Compatibility with Devices
 - Mathematics Hons Question From Burdwan University Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics Hons Question From Burdwan University
 - Highlighting and Note-Taking Mathematics Hons Question From Burdwan University
 - Interactive Elements Mathematics Hons Question From Burdwan University
 8. Staying Engaged with Mathematics Hons Question From Burdwan University
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics Hons Question From Burdwan University
 9. Balancing eBooks and Physical Books Mathematics Hons Question From Burdwan University
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics Hons Question From Burdwan University
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Mathematics Hons Question From Burdwan University
 - Setting Reading Goals Mathematics Hons Question From Burdwan University
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Mathematics Hons Question From Burdwan University
 - Fact-Checking eBook Content of Mathematics Hons Question From Burdwan University
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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