

FIRST SEMESTER B.A./B.Sc. DEGREE EXAMINATION, NOVEMBER 2019

(CBCSS—UG)

Mathematics

MTS 1C 01.—MATHEMATICS—I

(2019 Admissions)

27

Time : Two Hours

Maximum : 60 Marks

Section A

Answer any number of questions.

Each question carries 2 marks.

Maximum Marks 20.

- ✓ 1. Find the derivative of $f(x) = 3x^2 + 8x$ at $x_0 = -2$ and $x_0 = \frac{1}{2}$.
- ✓ 2. A rock thrown down from a bridge has fallen $4t + 4.9t^2$ meter after t seconds. Find its velocity at $t = 3$.
- ✓ 3. Find $\lim_{x \rightarrow +\infty} \frac{5x^2 - 3x + 2}{x^2 + 1}$.
- ✓ 4. Suppose that $f(t) = \frac{1}{4}t^2 - t + 2$ denotes the position of a bus at time t . Find the acceleration.
- ✓ 5. A bagel factory produces $30x - 2x^2 - 2$ dollars worth of bagels for each x worker hours of labour. Find the marginal productivity when 5 worker hours are employed.
- ✓ 6. The velocity of a particle moving along a line is $3t + 5$ at time t . At time 1, the particle is at position 4. Where is at time 10?
- 7. Use the second derivative test to analyze the critical points of the function $f(x) = x^3 - 6x^2 + 10$.

Turn over

Bsc Maths First Semester Question Paper

G Thomas



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Table of Contents Bsc Maths First Semester Question Paper

1. Understanding the eBook Bsc Maths First Semester Question Paper
 - The Rise of Digital Reading Bsc Maths First Semester Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Bsc Maths First Semester Question Paper
 - 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 Bsc Maths First Semester Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Bsc Maths First Semester Question Paper
 - Personalized Recommendations
 - Bsc Maths First Semester Question Paper User Reviews and Ratings
 - Bsc Maths First Semester Question Paper and Bestseller Lists
5. Accessing Bsc Maths First Semester Question Paper Free and Paid eBooks
 - Bsc Maths First Semester Question Paper Public Domain eBooks
 - Bsc Maths First Semester Question Paper eBook Subscription Services
 - Bsc Maths First Semester Question Paper Budget-Friendly Options
6. Navigating Bsc Maths First Semester Question Paper eBook Formats

- ePub, PDF, MOBI, and More
 - Bsc Maths First Semester Question Paper Compatibility with Devices
 - Bsc Maths First Semester Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Bsc Maths First Semester Question Paper
 - Highlighting and Note-Taking Bsc Maths First Semester Question Paper
 - Interactive Elements Bsc Maths First Semester Question Paper
 8. Staying Engaged with Bsc Maths First Semester Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Bsc Maths First Semester Question Paper
 9. Balancing eBooks and Physical Books Bsc Maths First Semester Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Bsc Maths First Semester Question Paper
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Bsc Maths First Semester Question Paper
 - Setting Reading Goals Bsc Maths First Semester Question Paper
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Bsc Maths First Semester Question Paper
 - Fact-Checking eBook Content of Bsc Maths First Semester Question Paper
 - 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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