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

(CBCSS—UG)

Mathematics

MTS 1C 01—MATHEMATICS—I

(2019 Admissions)

Time : Two Hours

27

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 $\lim\limits_{x \to \infty} \frac{5x^2 - 3x + 2}{x^2 + 1}$.

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

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Brendan G. Carr

Bsc Maths First Semester Question Paper:

   Universities Handbook ,2014   The Proceedings of the First Chancellor College Research Dissemination Conference ,2001   *B.Sc. Sem.1 & 2 and 1 year Mathematics old questions papers* PRAHSIDDH Educare,2024-05-28 Examination conducted by Bhavnagar University like B Sc Mathematics There is a set of old question papers of semester 1 and 2 as well as first year   **Mathematics for Degree Students (For B.Sc. First Year)** Mittal P.K.,2010 Algebra Functions And Relations Congruence Of Integers Some Special Types Of Matrices Elementary Operations And Inverse Of A Matrix Linear Dependance Of Vectors Rank Of A Matrix Linear Equations Characteristic Roots Of Vectors Theory Of Equations

   Mathematics for B.Sc. Students Semester I: Theory | Practical (Differential Calculus & Integral Calculus) NEP-UP H K Dass, Rajnish Verma, Dr. Rama Verma, Dr. Vinod J. Dagwal, Dr. Sajid Anwar & Dr. Damodhar F. Shastrakar, This textbook has been designed to meet the needs of B Sc First Semester students of Mathematics as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020 A methodical text which mirrors the flow of the units of the syllabus has been created with a focus on developing mathematical skills in both Differential and Integral Calculus and enables the reader to possess an in depth knowledge of the subjects Apart from this topics such as Convergence and Divergence of Series Successive Differentiation Partial Differentiation Riemann Integral Fundamental Theorems of Integral Calculus Vector Differentiation and Integration have been well explained   **A Textbook of B.Sc. Mathematics (Semester I) Differential Equations - Andhra Pradesh** V. Venkateswara Rao, N. Krishnamurthy, B.V.S.S. Sharma S. Anjaneya Sastry & S. Ranganatham, The revised syllabus for core courses in CBCS Semester system is being followed by all the universities in Andhra Pradesh from the academic year 2020 2021 This book strictly covers the new curriculum for Course I Semester I 1st year 1st semester under this syllabus

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textbook is ideal for undergraduate students who wish to develop a strong foundation in these critical areas of mathematics Whether you re a student or a professional these books are designed to provide you with a thorough understanding and practical approaches to these crucial areas of mathematics **10 Sample Question Papers for CBSE Board Term 1 Class 12 Mathematics** Career Point Kota,2021-11-17 Strictly as per the Term wise syllabus Sample Question Paper released on 2nd Sept 2021 Exam Targeted 10 Solved Papers All Types of MCQs Assertion reason Case based Answers with Explanations OMR Sheets after each Sample Question Paper Exam oriented important Questions for Board Exam

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