

C 3556

(Pages : 2)

Name.....

Reg. No.....

FOURTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION, APRIL 2021

Mathematics

MTS 4C 04—MATHEMATICS—4

Time : Two Hours

Maximum : 60 Marks

Section A

Answer at least eight questions.
Each question carries 3 marks.
All questions can be attended.
Overall Ceiling 24.

- ✓ 1. If $x = C_1 \cos 4t + C_2 \sin 4t$ is a solution of $x'' + 16x = 0$, $x(\frac{\pi}{2}) = -2$, $x'(\frac{\pi}{2}) = 1$, then find C_1 and C_2 .
- ✓ 2. Write any two solutions of $y'' = y'$ by inspection.
- ✓ 3. Solve $\frac{dy}{dx} = \sin 5x$.
- ✓ 4. Check whether $\frac{dy}{dx} = \frac{xy^2 - \cos x \sin x}{y(1-x^2)}$ is an exact differential equation.
- ✓ 5. Write the integrating factor corresponding to the differential equation $x \frac{dy}{dx} - 4y = x^6 e^x$.
- ✓ 6. Show that $y = 3e^{2x} + e^{-2x} - 3x$ is a unique solution of $y' - 4y = 12x$, $y(0) = 4$, $y'(0) = 1$.
- ✓ 7. Check whether $y_1 = e^{3x}$ and $y_2 = e^{-3x}$ are linearly independent solutions of $y'' - 9y = 0$.
- ✓ 8. If $y_1 = x^2$ is a solution of $x^2 y'' - 3xy' + 4y = 0$, find a second solution.
9. Find the Laplace transform of e^{-3x} .
10. Find the inverse Laplace transform of $\frac{6-2s}{s^2+4}$.
- ✓ 11. Check whether $f_1(x) = x$, $f_2(x) = \cos 2x$ are orthogonal in $[-\pi/2, \pi/2]$.
- ✓ 12. Show that the partial differential equation $\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} = 0$ is elliptic. $\triangleleft \odot$

(8 × 3 = 24 marks)

Turn over

Bsc Maths Model Question Papers Calicut University

Thomas Griffiths



Bsc Maths Model Question Papers Calicut University:

Mathematics for CUET - UG 2025 Pavitra Gupta, CUET UG 2025 MODEL TEST PAPERS This book contains 10 Model Test Papers Sample Papers of Mathematics which are strictly based on the syllabus prescribed by the National Testing Agency NTA for admission to central universities all over India in the undergraduate programmes The test is known as Common Universities Entrance Test Undergraduate Present book has practice papers which are quite helpful in revising the whole syllabus and knowing your understanding about the subject content It covers all the chapters of class 12 mathematics viz Relations and Functions Inverse Trigonometry Matrices Determinants Continuity Differentiability Application of Derivatives Integrals Application of Integrals Differential Equations Vector Algebra Three Dimensional Geometry Linear Programming and Probabilities However this book doesn't cover the syllabus of Applied Mathematics It only caters to Core Mathematics and all practice papers contains only 2 sections i Section A Common and ii Section B1 Core Mathematics Section B1 Core Mathematics is for those students who have studied Mathematics in 12th standard CUET exam will contain 3rd section also Section B2 Applied Mathematics This is for those students who have studied Applied Maths in 12th standard A student will have to attempt only one section out of B1 and B2 Section A is mandatory for all

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Table of Contents Bsc Maths Model Question Papers Calicut University

1. Understanding the eBook Bsc Maths Model Question Papers Calicut University
 - The Rise of Digital Reading Bsc Maths Model Question Papers Calicut University
 - Advantages of eBooks Over Traditional Books
2. Identifying Bsc Maths Model Question Papers Calicut 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 Bsc Maths Model Question Papers Calicut University
 - User-Friendly Interface
4. Exploring eBook Recommendations from Bsc Maths Model Question Papers Calicut University
 - Personalized Recommendations
 - Bsc Maths Model Question Papers Calicut University User Reviews and Ratings

- Bsc Maths Model Question Papers Calicut University and Bestseller Lists
- 5. Accessing Bsc Maths Model Question Papers Calicut University Free and Paid eBooks
 - Bsc Maths Model Question Papers Calicut University Public Domain eBooks
 - Bsc Maths Model Question Papers Calicut University eBook Subscription Services
 - Bsc Maths Model Question Papers Calicut University Budget-Friendly Options
- 6. Navigating Bsc Maths Model Question Papers Calicut University eBook Formats
 - ePub, PDF, MOBI, and More
 - Bsc Maths Model Question Papers Calicut University Compatibility with Devices
 - Bsc Maths Model Question Papers Calicut University Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Bsc Maths Model Question Papers Calicut University
 - Highlighting and Note-Taking Bsc Maths Model Question Papers Calicut University
 - Interactive Elements Bsc Maths Model Question Papers Calicut University
- 8. Staying Engaged with Bsc Maths Model Question Papers Calicut University
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Bsc Maths Model Question Papers Calicut University
- 9. Balancing eBooks and Physical Books Bsc Maths Model Question Papers Calicut University
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Bsc Maths Model Question Papers Calicut University
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Bsc Maths Model Question Papers Calicut University
 - Setting Reading Goals Bsc Maths Model Question Papers Calicut University
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Bsc Maths Model Question Papers Calicut University
 - Fact-Checking eBook Content of Bsc Maths Model Question Papers Calicut 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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