C 3556

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 $x'' + 16x = 0$, $x\left(\frac{\pi}{2}\right) = -2$, $x'\left(\frac{\pi}{2}\right) = 1$, 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 $\frac{xdy}{dx} - 4y = x^6 e^x$.

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 $v_1 = x^2$ is a solution of $x^2 y'' - 3xy' + 4y = 0$, find a second solution.

9. Find the Laplace transform of e^{-3t}.

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. < 0

$(8 \times 3 = 24 \text{ marks})$

Turn over

Bsc Mathematics Question Paper

Andhra Pradesh (India)

Bsc Mathematics Question Paper:

 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 **Biotechnology- I : Including Biochemistry,Mathematics,Computer Science** Rajeshwari S. Setty,2002 Written As Per Bangalore University Syllabus Covers Biochemistry Mathematics Statistics And Introduction To Computer Science Large Number Of Worked Examples And Illustrations Summary At The End Of Each Chapter A Large Number Of Theory Questions That Help Make Concepts Clear And Exercise Problems For Practice An Exhaustive List Of Formulae That Will Serve As Ready Reckoner For Last Minute References **Engineering Mathematics-I** Dr. Kailas L. Vairal,Prof. Nitin R. Kharat, Prof. Ganesh R. More,2024-10-30 This book is published as per the SPPU National Education Policy 2020 This book used common to all UG Engineering Programs This book will surely benefit every engineering students **My Mathematical Universe: People, Personalities, And The Profession** Krishnaswami Alladi,2022-11-15 This is an autobiography and an exposition on the contributions and personalities of many of the leading researchers in mathematics and physics with whom Dr Krishna Alladi Professor of Mathematics at the University of Florida has had personal interaction with for over six decades Discussions of various aspects of the physics and mathematics academic professions are included Part I begins with the author s unusual and frequent introductions as a young boy to scientific luminaries like Nobel Laureates Niels Bohr Murray Gell Mann and Richard Feynman in the company of his father the scientist Alladi Ramakrishnan Also in Part I is an exciting account of how the author started his research investigations in number theory as an undergraduate and how contact and collaboration with the great Paul Erd s as a student influenced him in his career In depth views of the Institute for Advanced Study Princeton and several major American Universities are given and fascinating descriptions of the work and personalities of some Field Medalists and eminent mathematicians are provided Part II deals with the author s tenure at the University of Florida where he initiated several programs as Mathematics Chair for a decade and how he has served the profession in various capacities most notably as Chair of the SASTRA Ramanujan Prize Committee and Editor in Chief of The Ramanujan Journal The book would appeal to academicians and the general public since the author has blended academic and scientific discussions at a non technical level with descriptions of destinations in his international travels for work and pleasure The reader is invited to dig as deep as desired and is guaranteed to be treated to whimsical stories and personal peeks at some of the great luminaries of the twentieth and twenty first centuries Text, Context and Construction of Identity Rajesh Kumar,Om Prakash,2019-04-30 Language is central to our existence and it happens to be the most sophisticated product of the human mind It is inconceivable to think of ourselves our societies our ideas cultures or identities without language It is the primary means of socialization and whatever we know is a result of it It is the primary medium of construction and dissemination of knowledge and structures our thought processes in important

ways that constitute our identity In very complex ways it interacts with the social political and economic power structures that remain significant in defining the identities of individuals and societies The essays in this volume create an awareness and understanding about the role of linguistic context in negotiating identity The book explains identity and the complex relations between language and several aspects of our society It explores identity through text and context and will serve to trigger a novel discourse around the centrality of identity in contemporary society **The Illustrated Weekly of India** ,1979 **The Intelligent Student** Axay D. Bamania,2020-08-29 After completing this book you will be able to Pursue subject specific writing skills and techniques which will yield you the highest marks in the exams Memorize all the concepts in sequence and page by page by using simple and effective memory techniques Get amazing results by applying innovative revision techniques and different types of learning methods Self study almost anything without anyone s help and cultivate self confidence to learn almost anything Score extra marks without additional hard work Just apply the smart tips given in the book Score more even if you have less time for preparation Become an all rounder student who can be a champion not only in studies but in all extra curricular activities too Use unique intelligent score card technique with the help of which one can find out the weaker part and step by step techniques to convert it into powerful grade earning skills Gift this book to your kids It will help them remain focused in studies improve their learning skills which will ultimately lead to improvement in results Every student above ten years of age on this planet should read this book Once you read and apply the methods given in this book you will not be an average student anymore Think Positive and Things Will Go Right Rakesh K. Mittal,2005-01-01 In this book Rakesh Mittal has narrated his personal experiences describing them in an interesting manner His narration imparts valuable information and wisdom and underlines his conviction that when we think positive things go right **Handbook of Research on AI-Based Technologies and Applications in the Era of the Metaverse** Khang, Alex,Shah, Vrushank,Rani, Sita,2023-07-03 The recent advancements in the field of the internet of things IoT AI big data blockchain augmented reality AR virtual reality VR cloud platforms quantum computing cybersecurity and telecommunication technology enabled the promotion of conventional computer aided industry to the metaverse ecosystem that is powered by AR VR driven technologies In this paradigm shift the integrated technologies of IoT and AI play a vital role to connect the cyberspace of computing systems and virtual environments AR VR supports a huge range of industrial applications such as logistics the food industry and manufacturing utilities The Handbook of Research on AI Based Technologies and Applications in the Era of the Metaverse discusses essential components of the metaverse ecosystem such as concepts methodologies technologies modeling designs statistics implementation and maintenance Covering key topics such as machine learning deep learning quantum computing and blockchain this premier reference source is ideal for computer scientists industry professionals researchers academicians scholars practitioners instructors and students **The Andhra Pradesh Gazette** Andhra Pradesh (India),1962 **The Calendar** University of Calcutta,1941 **Mathematics**

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