

NOTE: Attempt FIVE Questions in All. THREE Questions from Section "A" and TWO Questions from Section "B". Calculator is allowed.

SECTION - A

- Q No. 1:**
- (a) Evaluate $\lim_{n \rightarrow \infty} \left(1 + \frac{1}{n}\right)^n$ where n tends to infinity through positive integral values only.
- (b) State and prove Leibniz theorem. Find n th derivative of $e^x \ln x$ (20 Marks)

- Q No. 2:**
- a) Find (i) $\lim_{x \rightarrow 0} (\cot x)^{x \sin 2x}$
- (ii) $\lim_{x \rightarrow \frac{\pi}{2}} \left(\frac{\tan x}{\tan 3x}\right)$
- b) Evaluate (i) $\int \frac{dx}{\sqrt{x-x^3}}$ (ii) $\int_{-3}^3 |x| dx$

(20 Marks)

- Q No. 3:**
- a) Evaluate $\int_0^1 \int_0^x (x^2 + 4xy) dy dx$
- b) Evaluate $\iiint_s 3(x^2 + y^2 + z^2) dv$

Where s is bounded by the planes $x = 1, x = 3, y = -1, y = 1, z = 2$ and $z = 4$.

(20 Marks)

- Q No. 4:** Solve the initial value problems:-

- a) $(x^2 + 3y^2)dx - 2xy dy = 0, \quad y(2) = 6$
- b) $(x^2 + 1) \frac{dy}{dx} + 4xy = x, \quad y(2) = 1$

(20 Marks)

- Q No. 5:**
- a) A body of mass 2 slugs is dropped with no initial velocity and encounters an air resistance that is proportional to the square of its velocity. Find an expression for the velocity of the body at any time.

- (b) Approximate $\int_0^2 \frac{1}{\sqrt{x^2+1}} dx$ with $n = 4$

By using rules (i) Trapezoidal (ii) Simpson's

(20 Marks)

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Fourier Series and Integral Transforms Sreenadh S./ Ranganatham S./ Prasad M.V.S.S.N. & Babu, Ramesh V.,2014-08-04 For the Students of B A B Sc Third Year as per UGC MODEL CURRICULUM *CTET Success Master Maths & Science Paper-2 for Class 6 to 8 2020* Arihant Experts,2020-01-02 Throughout the world teaching is looked at as one of the most respected and noble profession a person could have A great teacher not only shows the right path that a student should follow but also prepares the human resources for the further development of the nation Among various exams CTET is the most popular teaching exam in the country Central Teaching Eligibility Test CTET is a national level test conducted by CBSE twice a year to recruit the eligible candidates as teacher The exam is conducted into 2 papers Paper 1 for class 1 5 and Paper 2 for class 6 8 Any candidate who is interested to become a teacher for classes 6 to 8 then they have to appear for both the papers The new the edition of Study Guide Success Master CTET Mathematics and Science Paper II has been prepared completely on the latest exam pattern The book has been divided into 5 key sections and further divided into chapters providing the focused study material After covering theoretical part this book also concentrates on the practice part it provides Previous Years Solved Paper 2 practice sets and more than 3000 MCQs for thorough practice Ample numbers of questions have been given which are covered in a Chapterwise manner that allows candidates to understand the trend of the questions as well as the exam This book will prove to be highly useful for the CTET Paper 2 exam as it will help in achieving the good rank in the exam

TABLE OF CONTENT

Solved Paper 2019 December Solved Paper 2019 July Solved Paper 2018 December Solved Paper 2016 September Child Development and Pedagogy English Language and Pedagogy Hindi Bhasha evm Shiksha Shastra Mathematics and Pedagogy Science and Pedagogy Practice Sets 1 2

Numeracy Across the Curriculum Merrilyn Goos,Vince Geiger,Shelley Dole,Helen Forgasz,Anne Bennison,2020-07-16 Being numerate involves more than mastering basic mathematics Numeracy connects the mathematics learned at school with out of school situations that require capabilities such as problem solving critical judgment and sense making related to non mathematical contexts This book provides prospective and practising teachers with practical research based strategies for embedding numeracy across the primary and secondary school curriculum Based on the authors ten year research program the text explains what numeracy is and how numeracy has developed as an educational goal It describes in detail the five dimensions of the authors model attention to real life contexts application of mathematical knowledge use of physical representational and digital tools the promotion of positive dispositions towards the use of mathematics to solve problems encountered in day to day life and a critical orientation to interpreting mathematical results and making evidence based judgements There is guidance on how to

embed numeracy across all subjects within the curriculum how to assess numeracy learning and how to deal with challenges and dilemmas including working with discipline boundaries and developing support resources Featuring practical examples and case studies throughout this book will build pre service teacher confidence demystify common misconceptions and grounds theory into practice in this vital area of student competency The authors of this text are recognised authorities on numeracy They have engaged heavily in numeracy research over many years and this text reflects the depth of their understanding and knowledge Geoff Hilton University of Queensland **Examcart NDA/NA Maths & GAT 36**

Chapter-wise Solved Papers for 2024 Exam in English Examcart Experts, **Neutrosophic Relations Database** A. A. Salama, Mohamed Eisa, M. M. Abdelmoghny, In this paper we introduce and study new types of neutrosophic concepts levels cut normal neutrosophic set convex neutrosophic set Added to we will begin with a definition of neutrosophic relation and then define the various operations and will study its main properties Some types of neutrosophic relations and neutrosophic database are given Finally we introduce and study neutrosophic database NDB for short Some neutrosophic queries are given to a neutrosophic database

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Table of Contents Mathematics A Paper 2 4 March 2013

1. Understanding the eBook Mathematics A Paper 2 4 March 2013
 - The Rise of Digital Reading Mathematics A Paper 2 4 March 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics A Paper 2 4 March 2013
 - 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 A Paper 2 4 March 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics A Paper 2 4 March 2013
 - Personalized Recommendations

- Mathematics A Paper 2 4 March 2013 User Reviews and Ratings
- Mathematics A Paper 2 4 March 2013 and Bestseller Lists
- 5. Accessing Mathematics A Paper 2 4 March 2013 Free and Paid eBooks
 - Mathematics A Paper 2 4 March 2013 Public Domain eBooks
 - Mathematics A Paper 2 4 March 2013 eBook Subscription Services
 - Mathematics A Paper 2 4 March 2013 Budget-Friendly Options
- 6. Navigating Mathematics A Paper 2 4 March 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics A Paper 2 4 March 2013 Compatibility with Devices
 - Mathematics A Paper 2 4 March 2013 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics A Paper 2 4 March 2013
 - Highlighting and Note-Taking Mathematics A Paper 2 4 March 2013
 - Interactive Elements Mathematics A Paper 2 4 March 2013
- 8. Staying Engaged with Mathematics A Paper 2 4 March 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics A Paper 2 4 March 2013
- 9. Balancing eBooks and Physical Books Mathematics A Paper 2 4 March 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics A Paper 2 4 March 2013
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics A Paper 2 4 March 2013
 - Setting Reading Goals Mathematics A Paper 2 4 March 2013
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics A Paper 2 4 March 2013
 - Fact-Checking eBook Content of Mathematics A Paper 2 4 March 2013

- 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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