

Council for Technical Education and Vocational Training
Office of the Controller of Examinations
Sanothimi, Bhaktapur

Regular/Back Exam-2078, Kartik/Mangsir

Program: Diploma in Civil/Hydropower/Architecture/
Electronics/IT/Computer Engineering

Full Marks: 80

Year/Part: III/I (2013, 2017, 2014, 2016, 2018)

Pass Marks: 32

Subject: Engineering Mathematics - III

Time: 3 hrs

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Group 'A'

Attempt All questions.

[(5+5)×3=30]

1. a) Using definition, find $\frac{\partial f}{\partial x}$ and $\frac{\partial f}{\partial y}$ of $f(x, y) = x^2y - xy^2$
b) If $u(x, y, z) = x^2 + y^2 + z^2$, $x = 2t + 1$, $y = t + 5$ and $Z = 7t$, then find $\frac{du}{dt}$
2. a) State limit comparisons test and use it to test the convergent or divergent of the infinite series.
 $\sum \sqrt{n^2 + 1} - n$
b) Find the Fourier series of the function
$$f(x) = \begin{cases} 1 & -\pi < x < 0 \\ -1 & 0 \leq x < \pi \end{cases}$$
3. a) Define a group and prove that the identity element of group is unique. Again prove that the inverse of a group is unique.
b) Let $S = \{0, 1, 2, 3, 4\}$. Show that S forms a group under the addition modulo 5.

Group 'B'

Attempt Any Five questions.

[5×10=50]

4. Solve by separating the variables : $\sqrt{1-x^2} dy + \sqrt{1-y^2} dx = 0$
5. Solve the homogeneous differential equation : $\frac{dy}{dx} = \frac{x^2+y^2}{2x^2}$

Cont.....

Engineering Maths Nquestion Papers

Camilla Rothe



Engineering Maths Nquestion Papers:

Engineering Maths Nquestion Papers Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Engineering Maths Nquestion Papers**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Engineering Maths Nquestion Papers

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

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