

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 2 Question Papers

D Keegan



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Engineering Mathematics: Volume II E. Rukmangadachari, 2012 *Oswaal 164 Chapter-wise & Topic-wise Solved Papers JEE (Main) | Online (2012-2024) & Offline (2002-2018) | Mathematics Book | For 2025 Exams*, 2024-05-29 Benefits of the product 100% Updated with 146 Online 2012 2024 18 Offline 2002 2018 Papers including 2024 All 20 sets of Papers Extensive Practice No of Questions Physics 2000 Chemistry 1700 Mathematics 1300 Concept Clarity with Chapter wise On Tips Notes Concept based videos Mind Maps Mnemonics and Appendix Valuable Exam Insights with Tips to crack the JEE Main Exam in the first Attempt 100% Exam Readiness with 5 Years Chapter wise Trend Analysis 2020 2024 **Oswaal NTA CUET (UG) Question Banks | Chapterwise & Topicwise | English, Physics, Chemistry, Biology & General Test | Set of 5 Books | Entrance Exam Preparation Books 2024** Oswaal Editorial Board, 2024-03-08 Description of the Product 100% Exam Ready With 2023 CUET UG Exam Papers Fully Solved with Explanations Concept Clarity With Revision Notes Chapter Analysis with updated pattern Extensive Practice With 800 Practice Questions of Previous Years 2021 2023 Fill Learning Gaps with Smart Mind Maps Concept Videos Valuable Exam Insights With Tips Tricks to ace CUET UG in 1st Attempt [Oswaal BPSC Prelims 20 Previous Years' solved papers \(1995-2023\) General Studies | English Medium \(for 2024 exam\)](#) Oswaal Editorial Board, 2023-11-18 Description of the product 100% Updated with the 2023 paper Extensive Practice with 3000 MCQs of 20 solved papers Valuable Exam Insights with Special coverage on Bihar special GS section Concept Clarity with Detailed Explanations 100% Exam Readiness answer keys Mapped with BPSC official answer keys *Oswaal NDA-NA (National Defence Academy / Naval Academy) 12 Solved Papers (2017-2023) General Ability Test - General Studies For 2024 Exam* Oswaal Editorial Board, 2023-10-25 Description of the product 1 100% updated with Fully Solved Paper of April 2023 2 Concept Clarity with detailed explanations of 2017 I II to 2023 I Papers 3 Extensive Practice with 1200 Questions and Two Sample Question Papers 4 Crisp Revision with Mind Maps Mnemonics 5 Expert Tips helps you get expert knowledge master crack NDA NA in first attempt 7 Exam insights with 5 Year wise 2023 2019 Trend Analysis empowering students to be 100% exam ready *Oswaal Government Exams Question Bank 12th Pass | General Awareness | for 2024 Exam* Oswaal Editorial Board, 2024-01-19 Description of the product 100% Updated with Topic wise Practice Questions Explanations Fill Learning Gaps with Revision Notes Supported Videos Concept Recap with Smart Mind Maps Chapter Analysis Smart Short cuts with short cuts and detailed explanations Valuable Exam Insights with Tips and Tricks to ace Government Exams in the first attempt **Oswaal Government Exams Question Bank 12th Pass | General English | for 2024 Exam** Oswaal Editorial Board, 2024-01-19 Description of the product 100% Updated with Topic wise Practice Questions Explanations Fill Learning Gaps with Revision Notes Supported Videos Concept Recap with Smart Mind Maps Chapter Analysis Smart Short cuts with short cuts and detailed explanations Valuable Exam Insights with Tips and Tricks to ace Government Exams in the first attempt **Oswaal Government Exams Question Bank 12th Pass | Quantitative**

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