

Council for Technical Education and Vocational Training  
Office of the Controller of Examinations  
Sanathimi, 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 Mathematics Question Paper 24

**J Ma**



**Engineering Mathematics Question Paper 24:**

This book delves into Engineering Mathematics Question Paper 24. Engineering Mathematics Question Paper 24 is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Engineering Mathematics Question Paper 24, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Engineering Mathematics Question Paper 24
    - Chapter 2: Essential Elements of Engineering Mathematics Question Paper 24
    - Chapter 3: Engineering Mathematics Question Paper 24 in Everyday Life
    - Chapter 4: Engineering Mathematics Question Paper 24 in Specific Contexts
    - Chapter 5: Conclusion
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