

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.....**

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