# 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: II/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)x3=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  $\frac{du}{dt}$ 

 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

$$f(x) = \begin{cases} 1 & -\pi < x \ 0 \\ -1 & 0 \le x < \pi \end{cases}$$

3. a) Define a group and prove that the identify element of group is unique. Again prove that the inverse of a group is unique.

Let  $s = \{0, 1, 2, 3, 4\}$ . Show that S forms a group under the addition modulo 5.

# Group 'B'

# Attempt Any Five questions.

[5x10=50]

Solve by separating the variables:  $\sqrt{1-x^2} dy + \sqrt{1-y^2} dx = 0$ 

Solve the homogeneous differential equation :  $\frac{dy}{dx} = \frac{x^2 + y^2}{2x^2}$ 

Cont.....

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