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)×3=30]

1. a) Using definition, find $\frac{\partial f}{\partial x}$ and $\frac{\partial f}{\partial y}$ of $f(x,y) = x^2 y - xy^2$

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

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.

    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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