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)

Subject: Engineering Mathematics – III   **Pass Marks: 32**

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.

$[(5+5)\times3=30]$

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 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.

$[5\times10=50]$

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

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

Engineering Mathematics Question Paper 24

M Woodhall

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