

First Semester B.E. Degree Examination, June/July 2016 Engineering Mathematics – I

Time: 3 hrs.

Max. Marks: 80

*Note: Answer any FIVE full questions,
choosing ONE full question from each module.*

Module-1

1. a. Find the n^{th} derivative of $y = e^{-2x} \cos^3 x$. (06 Marks)
- b. Find the angle of intersection between the curves $r = a(1 + \sin \theta)$ and $r = a(1 - \cos \theta)$. (05 Marks)
- c. Find the radius of curvature at the point $\left(\frac{3a}{2}, \frac{3a}{2}\right)$ on the curve $x^2 + y^2 = 3axy$. (05 Marks)

OR

2. a. If $y = \sin(\log(x^2 + 2x + 1))$, prove that $(x+1)^2 y_{n+2} - (2n+1)(x+1)y_{n+1} + (n^2 + 4)y_n = 0$. (06 Marks)
- b. Find the pedal equation for the curve $r^m \cos n\theta = a^m$. (05 Marks)
- c. Find the radius of curvature of the curve $x^2 - y^2 = 2$ at the point (1, 1). (05 Marks)

Module-2

3. a. Expand $\sin x$ in powers of x upto 4th degree terms using Taylor's series. (05 Marks)
- b. Evaluate: $\lim_{x \rightarrow 0} \left(\frac{\tan x}{x} \right)$. (05 Marks)
- c. If $u = \tan^{-1} \left(\frac{x-y}{x+y} \right)$ prove that $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} = \frac{1}{2} \sin 2u$. (06 Marks)

OR

4. a. Expand $\log(1 + e^x)$ using Maclaurin's series upto 3rd degree terms. (06 Marks)
- b. If $u = f\left(\frac{x}{y}, \frac{y}{z}, \frac{z}{x}\right)$ then prove that $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} + z \frac{\partial u}{\partial z} = 0$. (05 Marks)
- c. If $x = r \sin \theta \cos \phi$, $y = r \sin \theta \sin \phi$, $z = r \cos \theta$, find $J\left(\frac{x, y, z}{r, \theta, \phi}\right)$. (05 Marks)

Module-3

5. a. A particle moves along the curve $x = 2t^2$, $y = t^2 - 4t$, $z = 3t - 5$, where t is the time, find the component of its velocity and acceleration in the direction of the vector $i - 3j + 2k$ at $t = 1$. (06 Marks)
- b. Show that $\vec{F} = (6xy + z^3)i + (3x^2 - z)j + (3xz^2 - y)k$ is irrotational, find ϕ such that $F = \nabla \phi$. (05 Marks)
- c. Prove that $\text{div}(\text{curl } u) = 0$. (05 Marks)

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