

Second Semester B.E. Degree Examination, June/July 2016
Engineering Mathematics – II

Time: 3 hrs.

Max. Marks: 80

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

Module-1

1. a. Solve : $(4D^4 - 8D^3 - 7D^2 + 11D + 6)y = 0$. (05 Marks)
 b. Solve $\frac{d^3y}{dx^3} - 4y = \cosh(2x-1) + 3^x$, using inverse differential operator method. (05 Marks)
 c. Solve : $\frac{d^3y}{dx^3} - y = \frac{2}{1+e^x}$ by the method of variation of parameters. (06 Marks)

OR

2. a. Solve : $\frac{d^3y}{dx^3} + 3\frac{dy}{dx} + 2y = 1 + 3x + x^2$, using inverse differential operator method. (05 Marks)
 b. Solve : $\frac{d^3y}{dx^3} - 2\frac{dy}{dx} + y = e^x \cos x$, using inverse differential operator method. (05 Marks)
 c. Solve : $\frac{d^3y}{dx^3} - 3\frac{dy}{dx} + 2y = x^2 + e^x$ by the method of undetermined coefficients. (06 Marks)

Module-2

3. a. Solve : $x^2 \frac{d^2y}{dx^2} - 3x \frac{dy}{dx} + 4y = (1+x)^2$ (06 Marks)
 b. Solve : $y \left(\frac{dy}{dx} \right)^2 + (x-y) \frac{dy}{dx} - x = 0$. (05 Marks)
 c. Solve : $y = 2px + p^2y$ by solving for x . (05 Marks)

OR

4. a. Solve : $(3x+2)^2 y'' + 3(3x+2)y' - 36y = 8x^2 + 4x + 1$. (06 Marks)
 b. Solve : $y - 2px = \tan^{-1}(xp^2)$ (05 Marks)
 c. Solve the equation $(px - y)(py + x) = 2p$ by reducing it into Clairaut's form by taking a substitution $X = x^2$ and $Y = y^2$. (05 Marks)

Module-3

5. a. Obtain the partial differential equation by eliminating the arbitrary functions, given that $z = yf(x) + x\phi(y)$ (05 Marks)
 b. Solve $\frac{\partial^2 u}{\partial x \partial y} = \frac{x}{y}$ subject to the conditions $\frac{\partial u}{\partial x} = \log x$ when $y = 1$ and $z = 0$ when $x = 1$. (05 Marks)
 c. Derive the one dimensional wave equation in the form, $\frac{\partial^2 u}{\partial t^2} = C^2 \frac{\partial^2 u}{\partial x^2}$ (06 Marks)

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