

B. TECH
(SEM-II) THEORY EXAMINATION 2017-18
ENGINEERING MATHEMATICS - II

Time: 3 Hours

Total Marks: 70

Note: Attempt all Sections. If require any missing data, then choose suitably.

SECTION A

1. Attempt all questions in brief. 2 x 7 = 14
- (a) Determine the differential equation whose set of independent solutions is $\{e^x, xe^x, x^2e^x\}$.
- (b) Solve: $(D+1)^2 y = 2e^{-x}$.
- (c) Prove that: $P_n(-x) = (-1)^n P_n(x)$.
- (d) Find inverse Laplace transform of $\frac{s+8}{s^2+4s+5}$.
- (e) If $L\{F(\sqrt{t})\} = \frac{e^{-1/t}}{s}$, find $L\{e^{-t} F(3\sqrt{t})\}$.
- (f) Solve: $(D+4D'+5)^2 z = 0$, where $D = \frac{\partial}{\partial x}$, $D' = \frac{\partial}{\partial y}$.
- (g) Classify the equation: $x_{xx} + 2xz_{xy} + (1-y^2)z_{yy} = 0$.

SECTION B

2. Attempt any three of the following: 7 x 3 = 21
- (a) Solve $(D^2 - 2D + 4)y = e^x \cos x + \sin x \cos 3x$.
- (b) Prove that: $J_{3/2}(x) = \sqrt{\frac{2}{\pi x}} \left[\left(\frac{3-x^2}{x^2} \right) \sin x - \frac{3 \cos x}{x} \right]$.
- (c) Draw the graph and find the Laplace transform of the triangular wave function of period 2π given by
- $$F(t) = \begin{cases} t, & 0 < t \leq \pi \\ 2\pi - t, & \pi < t < 2\pi \end{cases}$$
- (d) Obtain half range cosine series for e^x the function $f(t) = \begin{cases} 2t, & 0 < t < 1 \\ 2(2-t), & 1 < t < 2 \end{cases}$
- (e) Solve by method of separation of variables: $\frac{\partial w}{\partial t} = \frac{\partial w}{\partial x} - 2w$; $w(x, 0) = 10e^{-x} - 6e^{-4x}$.

SECTION C

3. Attempt any one part of the following: 7 x 1 = 7
- (a) Solve the simultaneous differential equations:
- $$\frac{d^2 x}{dt^2} - 4 \frac{dx}{dt} + 4x = y \text{ and } \frac{d^2 y}{dt^2} + 4 \frac{dy}{dt} + 4y = 25x + 16e^t.$$
- (b) Use variation of parameter method to solve the differential equation $x^2 y'' + xy' - y = x^2 e^x$.

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