

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 $x^2 y'' + xy' - y = x^2 e^x$.

Engineering Mathematics 2 Mcq

S Ben Porath



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Table of Contents Engineering Mathematics 2 Mcq

1. Understanding the eBook Engineering Mathematics 2 Mcq
 - The Rise of Digital Reading Engineering Mathematics 2 Mcq
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Mathematics 2 Mcq
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Engineering Mathematics 2 Mcq
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Mathematics 2 Mcq
 - Personalized Recommendations

- Engineering Mathematics 2 Mcq User Reviews and Ratings
- Engineering Mathematics 2 Mcq and Bestseller Lists
- 5. Accessing Engineering Mathematics 2 Mcq Free and Paid eBooks
 - Engineering Mathematics 2 Mcq Public Domain eBooks
 - Engineering Mathematics 2 Mcq eBook Subscription Services
 - Engineering Mathematics 2 Mcq Budget-Friendly Options
- 6. Navigating Engineering Mathematics 2 Mcq eBook Formats
 - ePub, PDF, MOBI, and More
 - Engineering Mathematics 2 Mcq Compatibility with Devices
 - Engineering Mathematics 2 Mcq Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Engineering Mathematics 2 Mcq
 - Highlighting and Note-Taking Engineering Mathematics 2 Mcq
 - Interactive Elements Engineering Mathematics 2 Mcq
- 8. Staying Engaged with Engineering Mathematics 2 Mcq
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Engineering Mathematics 2 Mcq
- 9. Balancing eBooks and Physical Books Engineering Mathematics 2 Mcq
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Engineering Mathematics 2 Mcq
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Engineering Mathematics 2 Mcq
 - Setting Reading Goals Engineering Mathematics 2 Mcq
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Engineering Mathematics 2 Mcq
 - Fact-Checking eBook Content of Engineering Mathematics 2 Mcq

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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