

**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  $2\pi$  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

**J Rink**



**Engineering Mathematics 2 Mcq:**

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In a global consumed by monitors and the ceaseless chatter of immediate interaction, the melodic beauty and mental symphony developed by the published word frequently fade in to the background, eclipsed by the persistent sound and interruptions that permeate our lives. Nevertheless, nestled within the pages of **Engineering Mathematics 2 Mcq** an enchanting fictional treasure brimming with natural thoughts, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, this fascinating masterpiece conducts visitors on an emotional trip, skillfully unraveling the hidden tunes and profound influence resonating within each carefully crafted phrase. Within the depths of this emotional examination, we can explore the book is central harmonies, analyze its enthralling publishing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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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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