

4. (a) Use method of variation of parameters to solve the equation

$$\frac{d^2y}{dx^2} + 5\frac{dy}{dx} + 6y = e^{-2x} \sec^2 x (1 + 2 \tan x) \quad (6)$$

(b) Solve  $(3x+2)^2 \frac{d^2y}{dx^2} + 3(3x+2) \frac{dy}{dx} - 36y = 3x^2 + 4x + 1$  (7)

(c) A triangular prism is formed by the planes whose equations are  $ay = bx$ ,  $y=0$ ,  $x=a$ , obtain the volume of this prism between the planes  $z=0$  and the surface  $z=c+xy$ . (7)

5. (a) Evaluate  $\int_{-1}^1 \int_0^x \int_{x-z}^{x+z} (x+y+z) dx dy dz$  (6)

(b) Solve  $\frac{d^2y}{dx^2} - 4\frac{dy}{dx} + 4y = x^2 + e^x + \cos 2x$  (7)

(c) Solve  $\frac{d^3y}{dx^3} - 3\frac{dy}{dx} + 2y = 2e^x \cos(x/2)$  (7)

6. (a) Using Euler's method, find the approximate value of  $y$ , when  $x=1.5$  in five steps, taking  $h=0.1$ . Given  $\frac{dy}{dx} = \frac{y-1}{\sqrt{xy}}$  and  $y(1)=2$ . (6)

(b) Find the mass of the lamina bounded by the curve  $y^2 = ax$ ,  $x^2 = ay$  where the mass per unit area varies as the square of the distance from the origin. (7)

(c) Evaluate  $\iint \sqrt{xy(1-x-y)} dx dy$  over the region  $x \geq 0, y \geq 0, x+y \leq 1$  (7)

7. (a) Using Taylor's series method solve the equation  $\frac{dy}{dx} = 2y + 3e^x$ , given  $x_0 = 0, y_0 = 1$  at  $x=0.1$  and  $x=0.2$ . (6)

(b) In case of an elastic string which has one end fixed and a particle of mass,  $m$  attached to other end, the equation of motion is,

$$m \frac{d^2x}{dt^2} = -\frac{mg}{l}(x-l), \text{ where } l \text{ is the natural length of the string}$$

and  $x=l$  corresponds to equilibrium. Find a static equilibrium  $x(0)$  at  $t=0$ . (7)

$$y'' + 2y' + 2y = 0, y(0) = 1, y(\pi) = 0 \quad (7)$$

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### **Table of Contents Civil Engineering Applied Mathematics First Semester Polytechnic**

1. Understanding the eBook Civil Engineering Applied Mathematics First Semester Polytechnic
  - The Rise of Digital Reading Civil Engineering Applied Mathematics First Semester Polytechnic
  - Advantages of eBooks Over Traditional Books
2. Identifying Civil Engineering Applied Mathematics First Semester Polytechnic
  - 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 eBook Civil Engineering Applied Mathematics First Semester Polytechnic
  - User-Friendly Interface
4. Exploring eBook Recommendations from Civil Engineering Applied Mathematics First Semester Polytechnic
  - Personalized Recommendations
  - Civil Engineering Applied Mathematics First Semester Polytechnic User Reviews and Ratings
  - Civil Engineering Applied Mathematics First Semester Polytechnic and Bestseller Lists

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