

Q. 5) b) Verify Stokes's theorem for  $\vec{F} = 4xz\vec{i} - y^2\vec{j} + yz\vec{k}$  (7)  
over the area in the plane  $z=0$ , bounded by  
 $x=0$ ,  $y=0$ ,  $x^2+y^2=1$ .

c) Reduce to normal form and find rank of A (7)

$$A = \begin{bmatrix} 3 & 2 & 5 & 7 & 12 \\ 1 & 1 & 2 & 3 & 5 \\ 3 & 3 & 6 & 9 & 15 \end{bmatrix}.$$

Q. 6) a) Find values of  $\lambda$  and  $\mu$  so that equations (6)  
 $x+y+z=6$ ,  $x+2y+3z=10$ ,  $x+2y+\lambda z=\mu$   
have i) no solution. ii) unique solution iii) infinitely  
many solutions.

b) Verify Green's th<sup>m</sup> for  $\int \frac{1}{y} dx + \frac{1}{x} dy$  where (9)

'C' is boundary of the region given by  
 $x=1$ ,  $x=4$ ,  $y=1$ ,  $y=\sqrt{x}$

c) If  $A = \begin{bmatrix} 1 & 0 & 0 \\ 1 & 0 & 1 \\ 0 & 1 & 0 \end{bmatrix}$  Find  $A^{50}$ . (6)

Q. 7) a) Two lines of regression are given by (6)  
 $6y=5x+90$ ,  $15x=8y+130$ ,  $\sigma_x^2=16$

Find i)  $\bar{x}$ ,  $\bar{y}$  ii) Correlation coefficient  $r$ .

iii)  $\sigma_y^2$ .

# Engineering Mathematics4 Question Paper

**Oswaal Editorial Board**



## **Engineering Mathematics4 Question Paper:**

**Engineering Mathematics -IV- Complex Variables and Fourier Analysis JNTU** Dr. T K V Iyengar, Dr. M.V.S.S.N. Prasad, S. Ranganatham & Dr. B. Krishna Gandhi, This is the Second edition of the book Engineering Mathematics Volume IV Complex Variables and Fourier Analysis This text book has been written strictly according to the revised syllabus R 16 2016 17 of B Tech II Year First Semester students of Jawaharlal Nehru Technological University Hyderabad The treatment of all topics has been made as simple as possible and in some instances with detailed explanation as the book is meant to be understood with a minimum effort on the part of the reader However as Mathematics is a subject to be understood and practiced the students are advised to practice the exercises

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## **Table of Contents Engineering Mathematics4 Question Paper**

1. Understanding the eBook Engineering Mathematics4 Question Paper
  - The Rise of Digital Reading Engineering Mathematics4 Question Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Mathematics4 Question Paper
  - 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 Mathematics4 Question Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Mathematics4 Question Paper
  - Personalized Recommendations
  - Engineering Mathematics4 Question Paper User Reviews and Ratings
  - Engineering Mathematics4 Question Paper and Bestseller Lists
5. Accessing Engineering Mathematics4 Question Paper Free and Paid eBooks
  - Engineering Mathematics4 Question Paper Public Domain eBooks
  - Engineering Mathematics4 Question Paper eBook Subscription Services
  - Engineering Mathematics4 Question Paper Budget-Friendly Options
6. Navigating Engineering Mathematics4 Question Paper eBook Formats

- ePub, PDF, MOBI, and More
- Engineering Mathematics4 Question Paper Compatibility with Devices
- Engineering Mathematics4 Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Engineering Mathematics4 Question Paper
  - Highlighting and Note-Taking Engineering Mathematics4 Question Paper
  - Interactive Elements Engineering Mathematics4 Question Paper
- 8. Staying Engaged with Engineering Mathematics4 Question Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Engineering Mathematics4 Question Paper
- 9. Balancing eBooks and Physical Books Engineering Mathematics4 Question Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Engineering Mathematics4 Question Paper
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Engineering Mathematics4 Question Paper
  - Setting Reading Goals Engineering Mathematics4 Question Paper
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Engineering Mathematics4 Question Paper
  - Fact-Checking eBook Content of Engineering Mathematics4 Question Paper
  - 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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