

**KAKINADA INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**B.TECH (R20)-MODEL QUESTION PAPER**  
**I B.Tech I Semester Regular Examinations, July-2021**  
**M-I IMPORTANT QUESTIONS**

**UNIT-I**

1. Test the convergence of the series  $\sum(\sqrt{n^4 + 1} - \sqrt{n^4 - 1})$
2. Test the convergence of the series  $\frac{1}{2} + \frac{\sqrt{2}}{3} + \frac{\sqrt{2}}{8} + \dots + \frac{\sqrt{n}}{n^2-1} + \dots$
3. Test the convergence of the series  $\sum \frac{2.5.8\dots(3n-1)}{1.5.9\dots(4n-3)}$
4. State D'Alembert's ratio test and test the convergence of the series  $\sum \frac{1.3.5\dots(2n+1)}{2.5.8\dots(3n+2)}$
5. Test the convergence of the series i)  $\sum \tan\left(\frac{1}{n}\right)$  ii)  $\sum \frac{1}{n^n}$
6. Test the convergence of the series  $\frac{1}{2\sqrt{1}} + \frac{x^2}{3\sqrt{2}} + \frac{x^4}{4\sqrt{3}} + \dots + \frac{x^{2n-2}}{\sqrt{(n+1)}} + \dots$
7. Test the convergence of the series  $\sum_{n=1}^{\infty} \left(1 + \frac{1}{n}\right)^{-n^2}$
8. State Leibnitz's test and test the convergence of the series  $\sum \frac{(-1)^n}{\sqrt{(n+1)n+2}}$
9. Verify Rolle's theorem for the function  $f(x) = (x - a)^m(x - b)^n$  in  $[a, b]$
10. Verify Rolle's theorem  $f(x) = x^2 - 2x - 3$  in the interval  $(-1, 3)$
11. Prove that  $\frac{b-a}{1+b^2} < \tan^{-1} b - \tan^{-1} a < \frac{b-a}{1+a^2}$  where  $0 < a < b$
12. Show that for any  $x > 0$ ,  $1 + x < e^x < 1 + xe^x$
13. Verify Cauchy's mean value theorem for  $(x) = e^x$ ,  $(x) = e^{-x}$  in  $[3, 7]$
14. Verify Taylor's theorem for  $(x) = (1 - x)^2$  with Lagrange's form of remainder up to two terms in  $[0, 1]$ .

# Engineering Mathematics Question Papers Jntu

**Iyenger T.K.V./ Gandhi, Krishna B./  
Ranganatham S. & Prasad M.V.S.S.N.**

## **Engineering Mathematics Question Papers Jntu:**

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## **Table of Contents Engineering Mathematics Question Papers Jntu**

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

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