

**Model Question Paper-I (CBCS Scheme)**

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**Third Semester B.E Degree Examination**

**MATHEMATICS FOR CS ENGINEERING STREAM (BCS301)**

**TIME: 03 Hours**

**Max.Marks:100**

Note: (i) Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.  
 (ii) Statistical tables and Mathematics Formula handbooks are allowed.

<b>Module -I</b>			M	L	C
Q.01	a	A shipment of 8 similar microcomputers to a retail outlet contains 3 that are defective. If a school makes a random purchase of 2 of these computers, find the probability distribution for the number of defectives. Find the mean and variance of this distribution.	6	L2	CO1
	b	In a factory producing blades, the probability of any blade being defective is 0.002. If blades are supplied in packets of 10, Using Poisson distribution determine the number of packets containing i. No defective ii. One defective and iii. Two defective blades respectively in a consignment of 10000 packets	7	L2	CO1
	c	If the mileage (in thousands of miles) of a certain radial tyre is a random variable with exponential distribution with mean 40,000 miles. Determine the probability that the tyre will last i. At least 20,000 km ii. At most 30,000 km	7	L3	CO1
<b>OR</b>					
Q.02	a	The density function of a random variable X is given by $f(x) = \begin{cases} k\sqrt{x}, & 0 < x < 1, \\ 0, & \text{elsewhere} \end{cases}$ i. Find k ii. Find the cdf F(x) and use it to evaluate $P[0.3 < X < 0.6]$	6	L2	CO1
	b	Find the mean and variance of Binomial distribution.	7	L2	CO1

# Rtu Engineering Mathematics 3rd Semester Notes

**SB Merriam**



## **Rtu Engineering Mathematics 3rd Semester Notes:**

## **Rtu Engineering Mathematics 3rd Semester Notes** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Rtu Engineering Mathematics 3rd Semester Notes**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<https://matrix.jamesarcher.co/book/uploaded-files/index.jsp/backpage%20tyler%20east%20texas.pdf>

### **Table of Contents Rtu Engineering Mathematics 3rd Semester Notes**

1. Understanding the eBook Rtu Engineering Mathematics 3rd Semester Notes
  - The Rise of Digital Reading Rtu Engineering Mathematics 3rd Semester Notes
  - Advantages of eBooks Over Traditional Books
2. Identifying Rtu Engineering Mathematics 3rd Semester Notes
  - 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 Rtu Engineering Mathematics 3rd Semester Notes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Rtu Engineering Mathematics 3rd Semester Notes
  - Personalized Recommendations
  - Rtu Engineering Mathematics 3rd Semester Notes User Reviews and Ratings
  - Rtu Engineering Mathematics 3rd Semester Notes and Bestseller Lists

5. Accessing Rtu Engineering Mathematics 3rd Semester Notes Free and Paid eBooks
  - Rtu Engineering Mathematics 3rd Semester Notes Public Domain eBooks
  - Rtu Engineering Mathematics 3rd Semester Notes eBook Subscription Services
  - Rtu Engineering Mathematics 3rd Semester Notes Budget-Friendly Options
6. Navigating Rtu Engineering Mathematics 3rd Semester Notes eBook Formats
  - ePub, PDF, MOBI, and More
  - Rtu Engineering Mathematics 3rd Semester Notes Compatibility with Devices
  - Rtu Engineering Mathematics 3rd Semester Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Rtu Engineering Mathematics 3rd Semester Notes
  - Highlighting and Note-Taking Rtu Engineering Mathematics 3rd Semester Notes
  - Interactive Elements Rtu Engineering Mathematics 3rd Semester Notes
8. Staying Engaged with Rtu Engineering Mathematics 3rd Semester Notes
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Rtu Engineering Mathematics 3rd Semester Notes
9. Balancing eBooks and Physical Books Rtu Engineering Mathematics 3rd Semester Notes
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Rtu Engineering Mathematics 3rd Semester Notes
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Rtu Engineering Mathematics 3rd Semester Notes
  - Setting Reading Goals Rtu Engineering Mathematics 3rd Semester Notes
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Rtu Engineering Mathematics 3rd Semester Notes
  - Fact-Checking eBook Content of Rtu Engineering Mathematics 3rd Semester Notes
  - 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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