

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.

| Module -I | | | 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 |
| OR | | | | | |
| 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 |

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Lei Shi



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Table of Contents 3 Rd Sem Mathematics Civil Engineering

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

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