

(For those who joined in December 2015)

Time : Three hours

Maximum : 100 marks

PART A — ($4 \times 10 = 40$ marks)

Answer any FOUR questions.

1. Prove the following
- (a) Probability of the null set is zero; that $P(\phi) = 0$
 - (b) For each $C_1 \subset \xi$, $P(C) = 1 - P(C^*)$
 - (c) If C_1 and C_2 are subsets of ξ such that $C_1 \subset C_2$, then $P(C_1) \leq P(C_2)$
 - (d) If C_1 and C_2 are subsets of ξ , then $P(C_1 \cup C_2) = P(C_1) + P(C_2) - P(C_1 \cap C_2)$.
 - (e) For each $C \subset \xi$, $0 \leq P(C) \leq 1$.
2. Let X and Y have the joint p.d.f
- $f(x, y) = 6(1 - x - y)$, $0 < x, 0 < y, x + y < 1$ and zero elsewhere. Compute $P(2X + 3Y < 1)$ and $E(XY + 2X^2)$.

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the area From there the book moves to the empirical side of the science of networks before turning to the foundational modeling ideas that have been the focus of much subsequent activity The book closes by taking the reader to the cutting edge of network science the relationship between network structure and system dynamics From network robustness to the spread of disease this section offers a potpourri of topics on this rapidly expanding frontier of the new science

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Table of Contents Msc Maths Entrance Questions Papers

1. Understanding the eBook Msc Maths Entrance Questions Papers
 - The Rise of Digital Reading Msc Maths Entrance Questions Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Msc Maths Entrance Questions Papers
 - 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 Msc Maths Entrance Questions Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Msc Maths Entrance Questions Papers
 - Personalized Recommendations
 - Msc Maths Entrance Questions Papers User Reviews and Ratings
 - Msc Maths Entrance Questions Papers and Bestseller Lists

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