5. Suppose a continuous random variable X has density function.

$$f(x)=\begin{cases} k(1-x^2) & \text{for} \quad 0<x<1 \\ 0, & \text{elsewhere} \end{cases}$$

i) Find k

ii) Find $P(0.1 < x < 0.2)$

iii) $P(x > 0.5)$.

6. Find mean and variance of a continuous random variable X where density function is given by

$$f(x)\begin{cases} \frac{1}{4}e^{\frac{-x}{4}}, & \text{for} \quad x>0 \\ 0, & \text{otherwise} \end{cases}$$

7. Find the Fourier series for $f(x)=\begin{cases} -\pi, & -\pi<x<0 \\ x, & 0<x<\pi \end{cases}$

and deduce that $\frac{1}{1^2}+\frac{1}{3^2}+\frac{1}{5^2}+\ldots=\frac{\pi^2}{8}$

8. a) Explain Poisson and Normal distribution.

b) Fit a second degree parabola to the following data:

x:	0	1	2	3	4
y:	1	1.8	1.3	2.5	6.3

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Table of Contents Question Paper Discrete Mathematics 1 Semester

1. Understanding the eBook Question Paper Discrete Mathematics 1 Semester
    - The Rise of Digital Reading Question Paper Discrete Mathematics 1 Semester
    - Advantages of eBooks Over Traditional Books
2. Identifying Question Paper Discrete Mathematics 1 Semester
    - 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 Question Paper Discrete Mathematics 1 Semester
    - User-Friendly Interface

4. Exploring eBook Recommendations from Question Paper Discrete Mathematics 1 Semester
    - Personalized Recommendations
    - Question Paper Discrete Mathematics 1 Semester User Reviews and Ratings
    - Question Paper Discrete Mathematics 1 Semester and Bestseller Lists
5. Accessing Question Paper Discrete Mathematics 1 Semester Free and Paid eBooks
    - Question Paper Discrete Mathematics 1 Semester Public Domain eBooks
    - Question Paper Discrete Mathematics 1 Semester eBook Subscription Services
    - Question Paper Discrete Mathematics 1 Semester Budget-Friendly Options
6. Navigating Question Paper Discrete Mathematics 1 Semester eBook Formats
    - ePub, PDF, MOBI, and More
    - Question Paper Discrete Mathematics 1 Semester Compatibility with Devices
    - Question Paper Discrete Mathematics 1 Semester Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Question Paper Discrete Mathematics 1 Semester
    - Highlighting and Note-Taking Question Paper Discrete Mathematics 1 Semester
    - Interactive Elements Question Paper Discrete Mathematics 1 Semester
8. Staying Engaged with Question Paper Discrete Mathematics 1 Semester
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Question Paper Discrete Mathematics 1 Semester
9. Balancing eBooks and Physical Books Question Paper Discrete Mathematics 1 Semester
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Question Paper Discrete Mathematics 1 Semester
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Question Paper Discrete Mathematics 1 Semester
    - Setting Reading Goals Question Paper Discrete Mathematics 1 Semester
    - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Question Paper Discrete Mathematics 1 Semester
    - Fact-Checking eBook Content of Question Paper Discrete Mathematics 1 Semester
    - 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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