

Question 5

- (a) If $y = (\cot^{-1} x)^2$, show that $(1+x^2)^2 \frac{d^2 y}{dx^2} + 2x(1+x^2) \frac{dy}{dx} = 2$ [5]
- (b) Find the maximum volume of the cylinder which can be inscribed in a sphere of radius $3\sqrt{3}$ cm. (Leave the answer in terms of π) [5]

Question 6

- (a) Evaluate: $\int \frac{\cos^{-1} x}{x^2} dx$ [5]
- (b) Find the area bounded by the curve $y = 2x - x^2$, and the line $y = x$. [5]

Question 7

- (a) Find the Karl Pearson's co-efficient of correlation between x and y for the following data: [5]

| | | | | | | | | |
|-----|----|----|----|----|----|----|----|----|
| x | 16 | 18 | 21 | 20 | 22 | 26 | 27 | 15 |
| y | 22 | 25 | 24 | 26 | 25 | 30 | 33 | 14 |

- (b) The following table shows the mean and standard deviation of the marks of Mathematics and Physics scored by the students in a school: [5]

| | Mathematics | Physics |
|--------------------|-------------|---------|
| Mean | 84 | 81 |
| Standard Deviation | 7 | 4 |

The correlation co-efficient between the given marks is 0.86. Estimate the likely marks in Physics if the marks in Mathematics are 92.

Question 8

- (a) Bag A contains three red and four white balls; bag B contains two red and three white balls. If one ball is drawn from bag A and two balls from bag B, find the probability that: [5]
- One ball is red and two balls are white;
 - All the three balls are of the same colour.

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Table of Contents 2013 Mathematics Question Paper Ecol

1. Understanding the eBook 2013 Mathematics Question Paper Ecol
 - The Rise of Digital Reading 2013 Mathematics Question Paper Ecol
 - Advantages of eBooks Over Traditional Books
2. Identifying 2013 Mathematics Question Paper Ecol
 - 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 eBook 2013 Mathematics Question Paper Ecol
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2013 Mathematics Question Paper Ecol
 - Personalized Recommendations
 - 2013 Mathematics Question Paper Ecol User Reviews and Ratings
 - 2013 Mathematics Question Paper Ecol and Bestseller Lists

5. Accessing 2013 Mathematics Question Paper Ecol Free and Paid eBooks
 - 2013 Mathematics Question Paper Ecol Public Domain eBooks
 - 2013 Mathematics Question Paper Ecol eBook Subscription Services
 - 2013 Mathematics Question Paper Ecol Budget-Friendly Options
6. Navigating 2013 Mathematics Question Paper Ecol eBook Formats
 - ePub, PDF, MOBI, and More
 - 2013 Mathematics Question Paper Ecol Compatibility with Devices
 - 2013 Mathematics Question Paper Ecol Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2013 Mathematics Question Paper Ecol
 - Highlighting and Note-Taking 2013 Mathematics Question Paper Ecol
 - Interactive Elements 2013 Mathematics Question Paper Ecol
8. Staying Engaged with 2013 Mathematics Question Paper Ecol
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2013 Mathematics Question Paper Ecol
9. Balancing eBooks and Physical Books 2013 Mathematics Question Paper Ecol
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2013 Mathematics Question Paper Ecol
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 2013 Mathematics Question Paper Ecol
 - Setting Reading Goals 2013 Mathematics Question Paper Ecol
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 2013 Mathematics Question Paper Ecol
 - Fact-Checking eBook Content of 2013 Mathematics Question Paper Ecol
 - 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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