

**Question 5**

(a) If  $y = (\cot^{-1} x)^2$ , show that  $(1+x^2)^2 \frac{d^2y}{dx^2} + 2x(1+x^2) \frac{dy}{dx} = 2$  [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  $\pi$ ) [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:

- One ball is red and two balls are white;
- All the three balls are of the same colour.

[5]

# 2013 Mathematics Question Paper Ecol

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#### **Future**

**Oceans Under Multiple Stressors: From Global Change to Anthropogenic Impact** Erik Olsen,Isaac C. Kaplan,Cecilie Hansen Eide,Elizabeth A. Fulton,Michael J. Fogarty,Jamie C. Tam,Saskia Anna Otto,2020-12-30 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office [frontiersin.org](http://frontiersin.org) about contact [Current Trends in Dynamical Systems in Biology and Natural Sciences](#) Maira Aguiar,Carlos Braumann,Bob W. Kooi,Andrea Pugliese,Nico Stollenwerk,Ezio Venturino,2020-05-06 This book disseminates the latest results and envisages new challenges in the application of mathematics to various practical situations in biology epidemiology and ecology It comprises a collection of the main results presented at the Ninth Edition of the International Workshop Dynamical Systems Applied to Biology and Natural Sciences DSABNS held from 7 to 9 February 2018 at the Department of Mathematics University of Turin Italy While the principal focus is ecology and epidemiology the coverage extends even to waste recycling and a genetic application The topics covered in the 12 peer reviewed contributions involve such diverse mathematical tools as ordinary and partial differential equations delay equations stochastic equations control and sensitivity analysis The book is intended to help both in disseminating the latest results and in envisaging new challenges in the application of mathematics to various practical situations in biology epidemiology and ecology **Symmetry and Exact Solutions of Nonlinear Mathematical Physics**

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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 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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