

**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: [5]
- (i) One ball is red and two balls are white;
- (ii) All the three balls are of the same colour.

# 2013 Mathematics Question Paper Ecol

**Padhraic Smyth**



### **2013 Mathematics Question Paper Ecol:**

Carrion Ecology, Evolution, and Their Applications M. Eric Benbow, Jeffery K. Tomberlin, Aaron M. Tarone, 2025-07-17 The first edition of Carrion Ecology Evolution and Their Applications brought together multiple scientific disciplines to shed light on the importance of carrion within the context of ecology and evolutionary biology and through applications ranging from human mass disasters to habitat ecosystem conservation This second edition builds upon this foundation to include a huge amount of new research consisting of 33 chapters 9 brand new and the remaining 24 substantially updated and expanded One of the most significant changes for this edition is the coverage of aquatic ecosystems both freshwater and marine The book is now represented by 73 authors from eight countries incorporating more diverse perspectives and engagement into this multidisciplinary and expanding science The resulting new edition showcases a broader scope of topics geographic areas ecosystems and history of carrion ecology evolution and their applications for humanity It provides the most comprehensive resource on carrion from all ecosystems of the world The student academic and professional will find this book insightful providing new insights for the fields of molecular ecology microbiology entomology population biology community and ecosystem ecology as well as applications in forensics and human and environmental health *Advanced Remote Sensing for Urban and Landscape Ecology* Sk. Mustak, Dharmaveer Singh, Prashant Kumar Srivastava, 2023-06-23 This book introduces the use of various remote sensing data such as microwave hyperspectral and very high resolution VHR satellite imagery mapping techniques including pixel and object based machine learning and geostatistical modelling techniques including cellular automation entropy and land fragmentation Remote sensing plays a vital role in solving urban and environmental challenges at the landscape level Globally more than half of the urban population is facing severe environmental and social challenges especially those relating to climate change agricultural land encroachment green infrastructure and environmental degradation mobility due to rapid rural urban transformation and anthropogenic interventions Mapping and quantification of such threats at the landscape level are challenging for experts using traditional techniques however remote sensing technology provides diverse spatial data at a varying scale volume and accessibility for mapping and modelling and it also analyses challenges at urban and landscape levels Together they address challenges at urban and landscape levels to support the Sustainable Development Goals SDGs *Applications of STEM (Science, Technology, Engineering and Mathematics) Tools in Microbiology of Infectious Diseases* Julio Alvarez, Andres Perez, 2017-06-02 Epidemiology is a discipline intended to systematically investigate and ideally quantify disease dynamics in populations Perez 2015 Epidemiological assessments may be divided into four large areas namely a identification and characterization of a pathogen b development of systems for detection of cases c descriptive epidemiology and quantification of disease patterns and d advanced analytical methods to design intervention strategies Briefly there is an initial need for understanding the pathogeny of a disease and condition which may also include experimental studies and development of

new models of infection and proliferation under different conditions Subsequently such knowledge may be applied to support the identification of cases which typically includes the design evaluation and validation of diagnostic tests Disease may then be quantified in a population leading to the identification of patterns and application of molecular characterization techniques to understand disease spread and ultimately to identify factors preventing or promoting disease Finally those factors may be incorporated into advanced quantitative methods and epidemiological models which are used to design and evaluate strategies aimed at preventing controlling or eliminating disease in the population Recent years have seen a dramatic increase in the application of science technology engineering and mathematical STEM tools and approaches intended to enhance such analytical epidemiology process with the ultimate goal of supporting disease prevention control and eradication This eBook comprises a series of research articles that through current state of the art scientific knowledge on the application of STEM tools to the microbiology of infectious diseases demonstrate their usefulness at the various components of an integral epidemiological approach divided into the four large components of a experimental studies b novel diagnostic techniques c epidemiological characterization and d population modeling and intervention

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Symmetry and Exact

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