

**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  $\pi$ ) [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.

# Extreme Paper Mathematics November 2013

**L. Bengtsson, R.-M. Bonnet, M.  
Calisto, G. Destouni, R. Gurney, J.  
Johannessen, Y. Kerr, W.A. Lahoz, M.  
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*A-level Mathematics Complete Yearly Solutions 2013 (Yellowreef)* Thomas Bond, Chris Hughes, 2013-11-16 completely covers all question types since 1996 exposes all trick questions makes available full set of step by step solution approaches provides examination reports revealing common mistakes wrong habits easy to implement check back procedure gives short side reading notes advanced trade book Complete edition eBook only CTET & TETs Previous Years Papers (2021 - 2013) Mathematics and Science (Class 6-8) 2021 Arihant Experts, 2021-06-21 1 The book is complete practice capsule for CTET and TETs Entrances 2 Covers Previous Years Questions 2021 2013 of various Teaching Entrances 3 More than 3000 Questions are provided for practice 4 Well detailed answers help to understand the concepts Central Teacher Eligibility Test CTET or Teacher Eligibility Test TET are the national level teaching entrance exams that recruit eligible candidates as teacher who are willing to make their careers in the stream of teaching at Central or State Government Schools Prepared under National curriculum pattern the current edition of CTET TETs Previous Years Solved Papers Mathematics Science for Class 6 8 is a complete practice package for teaching entrances This book covers all the previous years questions 2021 2013 providing complete detailed explanations of each question It has more than 3000 Questions that are asked in various Teaching Entrances which promote self evaluation by enabling not just practicing and revising concepts but also to keep track of self progress Well detailed answers help students to win over doubt and fears associated with exam Preparation done from this book proves to be highly useful for CTET Paper II in achieving good rank TABLE OF CONTENT Solved Paper 2021 2013

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**OpenSHMEM and Related Technologies. OpenSHMEM in the Era of Extreme Heterogeneity** Swaroop Pophale, Neena Imam, Ferrol Aderholdt, Manjunath Gorentla Venkata, 2019-03-18 This book constitutes the proceedings of the 5th OpenSHMEM Workshop held in Baltimore MD USA in August 2018 The 14 full papers presented in this book were carefully reviewed and selected for inclusion in this volume The papers discuss a variety of ideas for extending the OpenSHMEM specification and discuss a variety of concepts including interesting use of OpenSHMEM in HOOVER a distributed flexible and scalable streaming graph processor and scaling OpenSHMEM to handle massively parallel processor arrays The papers are organized in the following topical sections OpenSHMEM library extensions and implementations OpenSHMEM use and applications and OpenSHMEM simulators tools and benchmarks

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*Nonlinear Mathematical Physics and Natural Hazards* Boyka Aneva, Mihaela Kouteva-Guentcheva, 2015-02-12 This book is devoted to current advances in the field of nonlinear mathematical physics and modeling of critical phenomena that can lead to catastrophic events Pursuing a multidisciplinary approach it gathers the work of scientists who are developing mathematical and computational methods for the study and analysis of nonlinear phenomena and who are working actively to apply these tools and create conditions to mitigate and reduce the negative consequences of natural and socio economic disaster risk This book summarizes the contributions of the International School and Workshop on Nonlinear Mathematical Physics and Natural Hazards organized within the framework of the South East Europe Network in Mathematical and Theoretical Physics SEENET MTP and supported by UNESCO It was held at the Bulgarian Academy of Sciences from November 28 to December 2 2013 The contributions are divided into two major parts in keeping with the scientific program of the meeting Among the topics covered in Part I Nonlinear Mathematical Physics towards Critical Phenomena are

predictions and correlations in self organized criticality space time structure of extreme current and activity events in exclusion processes quantum spin chains and integrability of many body systems applications of discriminantly separable polynomials MKdV type equations and chaotic behavior in Yang Mills theories Part II Seismic Hazard and Risk is devoted to probabilistic seismic hazard assessment seismic risk mapping seismic monitoring networking and data processing in Europe mainly in South East Europe The book aims to promote collaboration at the regional and European level to better understand and model phenomena that can cause natural and socio economic disasters and to contribute to the joint efforts to mitigate the negative consequence of natural disasters This collection of papers reflects contemporary efforts on capacity building through developing skills exchanging knowledge and practicing mathematical methods for modeling nonlinear phenomena disaster risk preparedness and natural hazards mitigation The target audience includes students and researchers in mathematical and theoretical physics earth physics applied physics geophysics seismology and earthquake danger and risk mitigation

**Blockchain and Cryptocurrency** Subiya Zaidi, Satya Prakash Yadav, 2020-10-23 Blockchain is a system of recording information in a way that makes it difficult or impossible to change hack or cheat the system and this is done using Cryptography A Cryptocurrency is a digital money that operates on the Blockchain technology This book is intended to provide a detailed analysis of the effect of Blockchain and Cryptocurrency in the current market It is designed with the focus to facilitate the students in understanding the working behind the raging technology Blockchain and Cryptocurrency are vastly discussed nowadays in all research domains to bring decentralization This book gives easy access to the complex terminologies revolving around the technology Since this is a new course assigned in the curriculum therefore special care is taken in drafting the units The chapters have been written with reference to the past understanding of the students of cryptography and merging those concepts with the Blockchain technology The emphasis is laid on fundamental ideas and ease of understanding with suitable diagrammatic representation and real world examples This book is self contained and requires no comparison and analysis with other conceptual data It can also be used by scholars who are beginners in the Blockchain technology and wish to dive deeper in its technological aspects Numerous multiple choice questions at the back of each chapter are given to test the objective understanding of the concepts

**Cultures of Mathematics and Logic** Shier Ju, Benedikt Löwe, Thomas Müller, Yun Xie, 2016-08-10 This book gathers the proceedings of the conference Cultures of Mathematics and Logic held in Guangzhou China The event was the third in a series of interdisciplinary international conferences emphasizing the cultural components of philosophy of mathematics and logic It brought together researchers from many disciplines whose work sheds new light on the diversity of mathematical and logical cultures and practices In this context the cultural diversity can be diachronical different cultures in different historical periods geographical different cultures in different regions or sociological in nature

**The Computer Supported Collaborative Learning (CSCL) Conference 2013, Volume 2** ISLS, 2014-04-23 The Computer Supported Collaborative Learning CSCL Conference 2013

proceedings Volume 2      *The Earth's Hydrological Cycle* L. Bengtsson, R.-M. Bonnet, M. Calisto, G. Destouni, R. Gurney, J. Johannessen, Y. Kerr, W.A. Lahoz, M. Rast, 2014-05-02 This book gives a comprehensive presentation of our present understanding of the Earth's Hydrological cycle and the problems consequences and impacts that go with this topic Water is a central component in the Earth's system It is indispensable for life on Earth in its present form and influences virtually every aspect of our planet's life support system On relatively short time scales atmospheric water vapor interacts with the atmospheric circulation and is crucial in forming the Earth's climate zones Water vapor is the most powerful of the greenhouse gases and serves to enhance the tropospheric temperature The dominant part of available water on Earth resides in the oceans Parts are locked up in the land ice on Greenland and Antarctica and a smaller part is estimated to exist as groundwater If all the ice over the land and all the glaciers were to melt the sea level would rise by some 80 m In comparison the total amount of water vapor in the atmosphere is small it amounts to 25 kg m<sup>2</sup> or the equivalent of 25 mm water for each column of air Yet atmospheric water vapor is crucial for the Earth's energy balance The book gives an up to date presentation of the present knowledge Previously published in *Surveys in Geophysics* Volume 35 No 3 2014      **Statistical Analysis and Stochastic Modelling of Hydrological Extremes** Hossein Tabari, 2019-10-28 Hydrological extremes have become a major concern because of their devastating consequences and their increased risk as a result of climate change and the growing concentration of people and infrastructure in high risk zones The analysis of hydrological extremes is challenging due to their rarity and small sample size and the interconnections between different types of extremes and becomes further complicated by the untrustworthy representation of meso scale processes involved in extreme events by coarse spatial and temporal scale models as well as biased or missing observations due to technical difficulties during extreme conditions The complexity of analyzing hydrological extremes calls for robust statistical methods for the treatment of such events This Special Issue is motivated by the need to apply and develop innovative stochastic and statistical approaches to analyze hydrological extremes under current and future climate conditions The papers of this Special Issue focus on six topics associated with hydrological extremes Historical changes in hydrological extremes Projected changes in hydrological extremes Downscaling of hydrological extremes Early warning and forecasting systems for drought and flood Interconnections of hydrological extremes Applicability of satellite data for hydrological studies      **Ship Hydrostatics and Stability** Adrian Biran, Rubén López-Pulido, 2013-10-17 Ship Hydrostatics and Stability is a complete guide to understanding ship hydrostatics in ship design and ship performance taking you from first principles through basic and applied theory to contemporary mathematical techniques for hydrostatic modeling and analysis Real life examples of the practical application of hydrostatics are used to explain the theory and calculations using MATLAB and Excel The new edition of this established resource takes in recent developments in naval architecture such as parametric roll the effects of non linear motions on stability and the influence of ship lines along with new international stability regulations Extensive reference to

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web hclo 4 is the stronger acid because in a series of oxyacids with similar formulas the higher the electronegativity of the central atom the stronger is the attraction of the central atom for the electrons of the oxygen s the stronger attraction of the oxygen electron results in a stronger attraction of oxygen for the electrons in the o h bond making the hydrogen

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web here the value of concentration of water is taken as 0 36 instead of 0 16 divide the product of the concentration of water carbon monoxide and the equilibrium constant by the concentration of hydrogen instead of multiplying it correct d the value of  $K_{eq}$  is taken as 4 4 instead of 0 44

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