

## MATHEMATICS

Paper &amp; Solution

Time: 3 Hrs.

Max. Marks: 90

General Instructions:

(i) All questions are compulsory.

(ii) The question paper consists of 31 questions divided into four sections – A, B, C and D.

(iii) Section A contains 4 questions of 1 mark each. Section B contains 6 questions of 2 marks each, Section C contains 10 questions of 3 marks each and Section D contains 11 questions of 4 marks each.

(iv) Use of calculators is not permitted.

## SECTION – A

Question numbers 1 to 4 carry 1 mark each.

1. If the quadratic equation  $px^2 - 2\sqrt{5}px + 15 = 0$  has two equal roots then find the value of  $p$ .**Solution:**

Given quadratic equation is,

$$px^2 - 2\sqrt{5}px + 15 = 0$$

Here,  $a = p$ ,  $b = 2\sqrt{5}p$ ,  $c = 15$ For real equal roots, discriminant  $= 0$ 

$$\therefore b^2 - 4ac = 0$$

$$\therefore (2\sqrt{5}p)^2 - 4p(15) = 0$$

$$\therefore 20p^2 - 60p = 0$$

$$\therefore 20p(p - 3) = 0$$

$$\therefore p = 3 \text{ or } p = 0$$

But,  $p = 0$  is not possible.

$$\therefore p = 3$$

2. In the following figure, a tower AB is 20 m high and BC, its shadow on the ground, is  $20\sqrt{3}$  m long. Find the Sun's altitude.

# Maths Ppe Paper 2015

**Joacim Rocklöv**



## Maths Ppe Paper 2015:

**Mathematical modelling of the pandemic of 2019 novel coronavirus (COVID-19): Patterns, Dynamics, Prediction, and Control** Hui-Jia Li, Lin Wang, Zhen Wang, Zhanwei Du, Bingyi Yang, Chengyi Xia, Aristides (Aris) Moustakas, Sen Pei, 2021-09-27

Recent Advances in Mathematics Textbook Research and Development Chunxia Qi, Lianghuo Fan, Jian Liu, Qimeng Liu, Lianchun Dong, 2024-11-08 This open access book documents the issues and developments in mathematics textbook research as presented at the Fourth International Conference on Mathematics Textbook Research and Development ICMT 4 held at Beijing Normal University China in November 2022 It showcases research and practical experiences from the mathematics textbook research field from over 20 countries and reflects the current trend of curriculum reform globally in terms of mathematics textbook research It helps readers gain knowledge about various issues related to the development content and use of mathematics textbooks from kindergarten to university level in and out of school settings in paper or digital format as well as the historical and recent developments and future directions in mathematics textbook research ICMT 4 continues the successful series started in 2014 with the first ICMT held in Southampton UK which was followed in 2017 by ICMT 2 in Rio de Janeiro Brazil and in 2019 by ICMT 3 in Paderborn Germany

**J. L. Austin** M. W. Rowe, 2023 J L Austin was one of the most influential philosophers of the twentieth century but also an intelligence officer in the Second World War This revelatory biography explores Austin's complex character his remarkable achievements in war and peace and the surprisingly dramatic events in his personal life **Flexible**

**Automation and Intelligent Manufacturing: Establishing Bridges for More Sustainable Manufacturing Systems**

Francisco J. G. Silva, Luís Pinto Ferreira, José Carlos Sá, Maria Teresa Pereira, Carla M. A. Pinto, 2023-08-24 This book reports on cutting edge research and developments in manufacturing giving a special emphasis to solutions fostering automation sustainability and health safety and well being at work Topics cover manufacturing process analysis and optimization supply chain management quality control as well as human factors and logistics They highlight the role and advantages of intelligent systems and technologies discussing current best practices and challenges to cope with in the near future Based on proceedings of the 32nd edition of the International Conference on Flexible Automation and Intelligent Manufacturing FAIM 2023 held on June 18-22 2023 in Porto Portugal this second volume of a 2 volume set provides academics and professionals with extensive information on innovative strategies for industrial management in the era of industry 5.0 **Models and**

*Theories in Social Systems* Cristina Flaut, Šárka Hošková-Mayerová, Daniel Flaut, 2018-10-12 This book concisely presents a broad range of models and theories on social systems Because of the huge spectrum of topics involving social systems various issues related to Mathematics Statistics Teaching Social Science and Economics are discussed In an effort to introduce the subject to a wider audience this volume part of the series Studies in Systems Decision and Control equally addresses the needs of mathematicians statisticians sociologists and philosophers The studies examined here are divided into

four parts The first part Perusing the Minds Behind Scientific Discoveries traces the winding path of Syamal K Sen and Ravi P Agarwal s scholarship throughout history and most importantly the thought processes that allowed each of them to master their subject The second part covers Theories in Social Systems and the third discusses Models in Social Systems while the fourth and final part is dedicated to Mathematical Methods in the Social Sciences Given its breadth of coverage the book will offer inquisitive readers a valuable point of departure for exploring these rich vast and ever expanding fields of knowledge

*School of Woke* Kenny Xu,2025-10-14 From one of America s most relentless critics of Critical Race Theory comes this far reaching on the ground investigation of how CRT infiltrated our public schools and transformed them into activism factories with disastrous results Awareness of the rise of Critical Race Theory CRT in public schools and how it has shaped our education system took the U S by storm over the last few years Parents truly became aware for the first time how deeply entrenched CRT was in the classrooms and their eyes were opened to the insidious agenda thoroughly embedded in public schools As a result CRT and parental rights in education became some of the most explosive issues facing Americans today Kenny Xu is a perceptive and relentless critic of CRT and our culture s war on meritocracy And now in *School of Woke* Xu exposes how CRT is transforming public schools and having a destructive impact on our children s education and their future In *School of Woke* Xu provides historical context to the rise of Critical Race Theory in education tracing it back to elite graduate schools in the 1970s and showing how the ideology became institutionalized and credentialed Xu covers the battles taking place in the most problematic and contested school districts in the nation including Loudoun and Fairfax County Public Schools in Northern Virginia and Santa Barbara High School in California He also exposes the lucrative business model behind the diversity consulting industrial complex that is instrumental in the curricular wars revealing how educators and administrators have been gaslighting the public about the prevalence of this radical ideology in the classrooms where children as young as five are being segregated in the classroom by race and are being taught that whiteness is inherently evil A work of colorful reportage historical analysis and cultural commentary *School of Woke* reveals what it will take to extricate our next generation from the destructive trends in our once vaunted public school education system [Economic](#)

[development, social consequences, and technological innovation under climate change covid-19 pandemic conditions](#) Cem Işık,Asif Razzaq,Vishal Dagar,2023-02-10 *Optimization, Learning Algorithms and Applications* Ana I. Pereira,Florabela P. Fernandes,João P. Coelho,João P. Teixeira,Maria F. Pacheco,Paulo Alves,Rui P. Lopes,2021-12-02 This book constitutes selected and revised papers presented at the First International Conference on Optimization Learning Algorithms and Applications OL2A 2021 held in Bragan a Portugal in July 2021 Due to the COVID 19 pandemic the conference was held online The 39 full papers and 13 short papers were thoroughly reviewed and selected from 134 submissions They are organized in the topical sections on optimization theory robotics measurements with the internet of things optimization in control systems design deep learning data visualization and virtual reality health informatics data analysis trends in

engineering education      **Dynamics of Disasters—Key Concepts, Models, Algorithms, and Insights** Ilias S. Kotsireas, Anna Nagurney, Panos M. Pardalos, 2016-11-21 This volume results from the Second International Conference on Dynamics of Disasters held in Kalamata Greece June 29 July 2 2015 The conference covered particular topics involved in natural and man made disasters such as war chemical spills and wildfires Papers in this volume examine the finer points of disasters through Critical infrastructure protection Resiliency Humanitarian logistic Relief supply chains Cooperative game theory Dynamical systems Decision making under risk and uncertainty Spread of diseases Contagion Funding for disaster relief Tools for emergency preparedness Response and risk mitigation Multi disciplinary theories tools techniques and methodologies are linked with disasters from mitigation and preparedness to response and recovery The interdisciplinary approach to problems in economics optimization government management business humanities engineering medicine mathematics computer science behavioral studies emergency services and environmental studies will engage readers from a wide variety of fields and backgrounds      Nonlinear Analysis and Global Optimization Themistocles M. Rassias, Panos M. Pardalos, 2021-02-26 This contributed volume discusses aspects of nonlinear analysis in which optimization plays an important role as well as topics which are applied to the study of optimization problems Topics include set valued analysis mixed concave convex sub superlinear Schroedinger equation Schroedinger equations in nonlinear optics exponentially convex functions optimal lot size under the occurrence of imperfect quality items generalized equilibrium problems artificial topologies on a relativistic spacetime equilibrium points in the restricted three body problem optimization models for networks of organ transplants network curvature measures error analysis through energy minimization and stability problems Ekeland variational principles in 2 local Branciari metric spaces frictional dynamic problems norm estimates for composite operators operator factorization and solution of second order nonlinear difference equations degenerate Kirchhoff type inclusion problems and more

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