

MATHEMATICS

Paper & 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

M. W. Rowe



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

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

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

Enhancing Entrepreneurial Mindsets Through STEM Education Sila Kaya-Capocci, Erin Peters-Burton, 2023-01-01 Entrepreneurship is defined in different fields with definitions ranging from a specific perspective such as starting a business to a broader perspective such as a process of establishing new social economic environmental institutional cultural and or scientific environments There has been some movement toward entrepreneurship in STEM education through hackathons and makerspaces but they tend to be limited to informal settings In higher education there seems to be a border line between business schools and education departments This book aims to remove the borders between the Business Schools and the Department of Education and help Business Schools to develop their educational practices further and help Education Departments to develop their knowledge of entrepreneurship from its formal discipline The purpose of this book is to bring together experts from STEM education and the formal discipline of entrepreneurship to explore the role of STEM in everyday life through an entrepreneurial lens and show how this integration can broaden STEM

education practices Polymer Synthesis Based on Triple-bond Building Blocks Ben Zhong Tang,Rongrong Hu,2018-07-09
The series Topics in Current Chemistry Collections presents critical reviews from the journal Topics in Current Chemistry organized in topical volumes The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology medicine and materials science The goal of each thematic volume is to give the non specialist reader whether in academia or industry a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed The coverage is not intended to be an exhaustive summary of the field or include large quantities of data but should rather be conceptual concentrating on the methodological thinking that will allow the non specialist reader to understand the information presented Contributions also offer an outlook on potential future developments in the field **The International Science and Evidence Based Education (ISEE) Assessment**
UNESCO MGIEP,2022-03-22 The International Science and Evidence Based Education ISEE Assessment is an initiative of the UNESCO Mahatma Gandhi Institute of Education for Peace and Sustainable Development MGIEP and is its contribution to the Futures of Education process launched by UNESCO Paris in September 2019 In order to contribute to re envisioning the future of education with a science and evidence based report UNESCO MGIEP embarked on the first ever large scale assessment of knowledge of education Advances in Intelligent Information Hiding and Multimedia Signal Processing
Shu-Chuan Chu,Shi-Huang Chen,Zhenyu Meng,Keun Ho Ryu,George A. Tsihrintzis,2022-07-05 The book presents selected papers from the 17th International Conference on Intelligent Information Hiding and Multimedia Signal Processing in conjunction with the 14th International Conference on Frontiers of Information Technology Applications and Tools held on October 29 31 2021 in Kaohsiung Taiwan It is divided into two volumes and discusses latest research outcomes in the field of information technology IT including but not limited to information hiding multimedia signal processing big data data mining bioinformatics database industrial and Internet of things and their applications

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Table of Contents Maths Ppe Paper 2015

1. Understanding the eBook Maths Ppe Paper 2015
 - The Rise of Digital Reading Maths Ppe Paper 2015
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Ppe Paper 2015
 - 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 Maths Ppe Paper 2015
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Ppe Paper 2015
 - Personalized Recommendations
 - Maths Ppe Paper 2015 User Reviews and Ratings
 - Maths Ppe Paper 2015 and Bestseller Lists
5. Accessing Maths Ppe Paper 2015 Free and Paid eBooks
 - Maths Ppe Paper 2015 Public Domain eBooks
 - Maths Ppe Paper 2015 eBook Subscription Services
 - Maths Ppe Paper 2015 Budget-Friendly Options
6. Navigating Maths Ppe Paper 2015 eBook Formats

- ePub, PDF, MOBI, and More
- Maths Ppe Paper 2015 Compatibility with Devices
- Maths Ppe Paper 2015 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Ppe Paper 2015
 - Highlighting and Note-Taking Maths Ppe Paper 2015
 - Interactive Elements Maths Ppe Paper 2015
- 8. Staying Engaged with Maths Ppe Paper 2015
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Ppe Paper 2015
- 9. Balancing eBooks and Physical Books Maths Ppe Paper 2015
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Ppe Paper 2015
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Ppe Paper 2015
 - Setting Reading Goals Maths Ppe Paper 2015
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Ppe Paper 2015
 - Fact-Checking eBook Content of Maths Ppe Paper 2015
 - 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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