

## SECTION I

Answer ALL questions.

All working must be clearly shown.

1. (a) Calculate the EXACT value of

$$\left(1\frac{3}{4} - \frac{1}{8}\right) + \left(\frac{5}{6} + \frac{2}{3}\right). \quad (3 \text{ marks})$$

- (b) Using a calculator or otherwise, calculate

$$\sqrt{2.891} + \frac{1.2}{(1.31)^2}$$

giving your answer correct to 2 decimal places.

(3 marks)

- (c) A jeweller paid \$6 800 for 165 bracelets bought in China. The Customs Department in his country charged him \$1 360 in duty.

- (i) Calculate the TOTAL cost of the 165 bracelets inclusive of duty. (1 mark)

- (ii) The jeweller sold the 165 bracelets at a selling price of \$68.85 EACH.

- a) Calculate the TOTAL profit he made on the sale of the 165 bracelets.

(2 marks)

- b) Calculate the profit as a percentage of the cost price, giving your answer to the nearest whole number. (2 marks)

Total 11 marks

2. (a) (i) Solve for
- $x$
- , where
- $x$
- is a real number

$$2(x - 6) + 3x \leq 8. \quad (3 \text{ marks})$$

- (ii) Using a number line, show your solution to Part (a) (i). (1 mark)

- (b) Factorize completely:

- (i)
- $3x - 6y + ax - 2ay$
- (2 marks)

- (ii)
- $p^2 - 1$
- (1 mark)

# 7th November 2014 Maths Paper

**Mike Jess**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

## 7th November 2014 Maths Paper:

*Rebirth* Jennifer Whitmer Taylor, 2025-04-10 Reimagining both the House Museum and Reconstruction memory for the twenty first century In *Rebirth* public historian Jennifer Whitmer Taylor provides a compelling account of how to reenvision the historic house museum Using the Museum of the Reconstruction Era known as the Woodrow Wilson Family Home for most of its many years as a house museum as a case study Taylor explores the challenges and possibilities that face public history practitioners and museum professionals who provide complex interpretations of contested public memory Anchored by oral history interviews with docents who interact directly with the visiting public *Rebirth* considers how a dated and seemingly outmoded venue for interpretation the historic house museum can be reimagined for twenty first century audiences Taylor offers best practices for interpreting issues such as white supremacy and domestic political terrorism for public audiences and she challenges readers to contemplate how historic sites interact with and contribute to vital contemporary political conversations *Rebirth* is a necessary book for public history practitioners students of museum studies and historic site interpretation and those interested in the history and memory of the Reconstruction era

*Numerical and Evolutionary Optimization 2018* Adriana Lara, Marcela Quiroz, Efrén Mezura-Montes, Oliver Schütze, 2019-11-19 This book was established after the 6th International Workshop on Numerical and Evolutionary Optimization NEO representing a collection of papers on the intersection of the two research areas covered at this workshop numerical optimization and evolutionary search techniques While focusing on the design of fast and reliable methods lying across these two paradigms the resulting techniques are strongly applicable to a broad class of real world problems such as pattern recognition routing energy lines of production prediction and modeling among others This volume is intended to serve as a useful reference for mathematicians engineers and computer scientists to explore current issues and solutions emerging from these mathematical and computational methods and their applications

*Algorithms for Sensor Systems* Falko Dressler, Christian Scheideler, 2019-11-18 This book constitutes revised selected papers from the 15th International Symposium on Algorithms and Experiments for Wireless Sensor Networks ALGOSENSORS 2019 held in Munich Germany in September 2019 The 11 full papers presented in this volume were carefully reviewed and selected from 16 submissions ALGOSENSORS is an international symposium dedicated to the algorithmic aspects of wireless networks

*Integration as Solution for Advanced Smart Urban Transport Systems* Grzegorz Sierpiński, 2018-08-25 Methods of advanced data collecting and their analysis models which help with decision problems as well as technical solutions which improve the integrity of contemporary transport systems at urban area are only some of many problems connected with integration in passenger and freight transport which have been discussed in this book The book expresses case study based scientific and practical approach to the problems of contemporary transport systems The proposed methods and models enable a system approach to assess current solutions In turn implementation proposals may support the improvement of the integrity of individual elements of

transport systems and thus increase its effectiveness on the global scale With regard to the research results discussed and the selected solutions applied the book primarily addresses the needs of three target groups Scientists and researchers ITS field Local authorities responsible for the transport systems at the urban and regional level Representatives of business traffic strategy management and industry manufacturers of ITS components This book gathers selected papers presented at the 15th Scientific and Technical Conference Transport Systems Theory and Practice organised by the Department of Transport Systems and Traffic Engineering at the Faculty of Transport of the Silesian University of Technology The conference was held in Katowice Poland on September 17 19 2018

### **Resilient Routing in Communication Networks**

Jacek Rak, 2024-09-16 This practically focused monograph addresses the latest issues of resilient routing in networked systems It consists of three parts and offers an in depth introduction to the resilience of networked systems Part I a detailed description of schemes of resilient routing Part II and examples of the application of resilience mechanisms in selected communication scenarios Part III Topics and features presents the essentials of network resilience highlights the main causes of network node and link failures elaborates on the costs and benefits of investing in resilience discusses the taxonomy of challenges faults attributes and disciplines of resilience overviews the major metrics useful in evaluating resilience provides a detailed classification of resilient routing schemes analyzes the features of optimization models for selected problems of resilient routing illustrates the properties of computationally efficient methods for determining the shortest sets of disjoint communication paths shows the practical use of resilient routing mechanisms in selected communication scenarios with a particular focus on up to date concepts such as network virtualization or content centric networking

### **South African national bibliography**, 1999 Classified list with author and title index

**The Cerebellum: From Development to Learning** Salvador Martinez, José A. Armengol, 2015-09-17 In this book laboratory leaders on cerebellar neuroscience have revised the present body of knowledge about cerebellum anatomy and function The trip throughout the cerebellar vineyard organization starts from the causal study of morphogenesis that is the molecular and cellular mechanisms underplaying form generation to the molecular mechanism regulation cellular differentiation Basson Dusart Hawkes Martinez and Rosi s groups contributions Then neurodevelopmental anomalies associated with structural disorganization are revised in Jissendi and Batkovich s group reviews describing and discussing pathogenic processes Finally functional mechanisms of cerebellar circuits involved in motor learning are revised by Delgado Garcia and Armengol s group contribution

*Ricerche di matematica*, 2014 Current Technical Papers, 1974 *Stopping the Spies* Jane Duncan, 2018-06-01 Is South Africa on its way to becoming a surveillance state and will it need a whistleblower In 2013 former National Security Agency NSA contractor Edward Snowden leaked secret documents revealing that state agencies like the NSA had spied on the communications of millions of innocent citizens International outrage resulted but the Snowden documents revealed only the tip of the surveillance iceberg Apart from insisting on their rights to tap into communications more and more states are

placing citizens under surveillance tracking their movements and transactions with public and private institutions The state is becoming like a one way mirror where it can see more of what its citizens do and say while citizens see less and less of what the state does owing to high levels of secrecy around surveillance In this book Jane Duncan assesses the relevance of Snowden s revelations for South Africa In doing so she questions the extent to which South Africa is becoming a surveillance society governed by a surveillance state Duncan challenges members of civil society to be concerned about and to act on the ever expanding surveillance capacities of the South African state Is surveillance used for the democratic purpose of making people safer or is it being used for the repressive purpose of social control especially of those considered to be politically threatening to ruling interests She explores the forms of collective action needed to ensure that unaccountable surveillance does not take place and examines what does and does not work when it comes to developing organised responses [Revista Matemática Iberoamericana](#) ,2015 *Derbyshire Visitation Pedigrees 1569 and 1611* William Dugdale,1895

**Constitution and List of Members** American Society of Civil Engineers,1930 *Collectanea Mathematica* ,2013

**Mergent Bond Record** ,2001 *The Commercial and Financial Chronicle* ,1940 *Mathematical Reviews* ,2005

**Indian National Bibliography** B. S. Kesavan,2016-12 **The Indian National Bibliography** ,2017-04

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