

Thursday 13 June 2013 – Morning

A2 GCE MATHEMATICS (MEI)

4754/01A Applications of Advanced Mathematics (C4) Paper A

PRINTED ANSWER BOOK

Candidates answer on this Printed Answer Book.

OCR supplied materials:

- Question Paper 4754/01A (inserted)
- MEI Examination Formulae and Tables (MF2)

Other materials required:

- Scientific or graphical calculator

Duration: 1 hour 30 minutes



Candidate forename						Candidate surname					
Centre number						Candidate number					

INSTRUCTIONS TO CANDIDATES

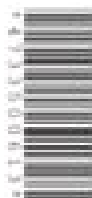
These instructions are the same on the Printed Answer Book and the Question Paper.

- The Question Paper will be found in the centre of the Printed Answer Book.
- Write your name, centre number and candidate number in the spaces provided on the Printed Answer Book. Please write clearly and in capital letters.
- **Write your answer to each question in the space provided in the Printed Answer Book.** Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Answer **all** the questions.
- Do **not** write in the bar codes.
- You are permitted to use a scientific or graphical calculator in this paper.
- Final answers should be given to a degree of accuracy appropriate to the context.

INFORMATION FOR CANDIDATES

This information is the same on the Printed Answer Book and the Question Paper.

- The number of marks is given in brackets [] at the end of each question or part question on the Question Paper.
- You are advised that an answer may receive **no marks** unless you show sufficient detail of the working to indicate that a correct method is being used.
- The total number of marks for this paper is **72**.
- The Printed Answer Book consists of **16** pages. The Question Paper consists of **4** pages. Any blank pages are indicated.
- The paper will be followed by **Paper B: Comprehension**.



June 2013 Mei C4

Vesna Lazić, Steven Stuij



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Novel Insights Into Plant-Geminivirus Interactions Jose Trinidad Ascencio-Ibáñez, Alice Kazuko Inoue-Nagata, Rosa Lozano-Durán, Araceli G. Castillo, 2021-05-20 *Brussels Ibis Regulation* Vesna Lazić, Steven Stuij, 2016-11-24 This book focuses on major amendments introduced in the Brussels I regulatory framework The contributions scrutinise the changes introduced in the Brussels Ibis Regulation a legal instrument that presents a core of the unification of private international law rules on the European Union level It is one of the first publications addressing all the changes in the Brussels I regulatory scheme which takes into consideration relevant CJEU case law up to July 2016 The texts written by legal scholars who have published extensively in the field of private international law and international civil procedure will add to the development of EU private international law In addition the authors critical analysis may open further discussions on the topic and so benefit a consistent and harmonised application of the Regulation In this respect the book takes a different approach than the commentaries which have so far been published It is primarily meant for legal academics in private international law and practitioners who are regularly engaged in cross border civil proceedings It may also be of added value to advanced students and to those with a particular interest in the subject of international litigation and more generally in the area of dispute resolution Vesna Lazić is a Senior Researcher at the T M C Asser Instituut an Associate Professor of Private Law at Utrecht University and Professor of European Civil Procedure at the University of Rijeka Steven Stuij is an expert in Private International Law and an external Ph D candidate at Erasmus School of Law Rotterdam *Critical Perspectives on Journalistic Beliefs and Actions* Eric Freedman, Robyn S. Goodman, Elanie Steyn, 2018-05-11 This book provides case studies many incorporating in depth interviews and surveys of journalists It examines issues such as journalists attitudes toward their contributions to society the impact of industry and technological changes culture and minority issues in the newsroom and profession the impact of censorship and self censorship and coping with psychological pressures and physical safety dilemmas Its chapters also highlight journalists challenges in national and multinational contexts International scholars conducting research within a wide range of authoritarian semi democratic and democratic systems contributed to this examination of journalistic practices in the Arab World Australia Bangladesh Bulgaria China Denmark India Kenya Kyrgyzstan Malaysia Mexico Russia Samoa South Africa Taiwan Turkey and the United States **Federal Register**, 2012-05 **Panda Nation** E. Elena Songster, 2018-03-16 A logo on products ranging from chopsticks and toilet paper to cell phones and automobiles the panda is one of the most ubiquitous images in China and throughout the world Yet the panda holds little notable historical significance in China Although it has existed in the territory of present day China since the Pliocene epoch its widespread popularity there is not only recent but almost sudden In *Panda Nation* E. Elena Songster links the emergence of the giant panda as a national symbol to the development of nature protection in the People's Republic of China The panda's transformation into a national treasure exemplifies China's efforts in the mid twentieth

century to distinguish itself as a nation through government directed science and popular nationalism The story of the panda s iconic rise offers a striking reflection of China s recent and dramatic ascent as a nation in global status *Power System Control and Stability* Vijay Vittal,James D. McCalley,Paul M. Anderson,A. A. Fouad,2019-10-15 The third edition of the landmark book on power system stability and control revised and updated with new material The revised third edition of Power System Control and Stability continues to offer a comprehensive text on the fundamental principles and concepts of power system stability and control as well as new material on the latest developments in the field The third edition offers a revised overview of power system stability and a section that explores the industry convention of q axis leading d axis in modeling of synchronous machines In addition the third edition focuses on simulations that utilize digital computers and commercial simulation tools it offers an introduction to the concepts of the stability analysis of linear systems together with a detailed formulation of the system state matrix The authors also include a revised chapter that explores both implicit and explicit integration methods for transient stability Power System Control and Stability offers an in depth review of essential topics and Discusses topics of contemporary and future relevance in terms of modeling analysis and control Maintains the approach style and analytical rigor of the two original editions Addresses both power system planning and operational issues in power system control and stability Includes updated information and new chapters on modeling and simulation of round rotor synchronous machine model excitation control renewable energy resources such as wind turbine generators and solar photovoltaics load modeling transient voltage instability modeling and representation of three widely used FACTS devices in the bulk transmission network and the modeling and representation of appropriate protection functions in transient stability studies Contains a set of challenging problems at the end of each chapter Written for graduate students in electric power and professional power system engineers Power System Control and Stability offers an invaluable reference to basic principles and incorporates the most recent techniques and methods into projects Railway News, Finance and Joint-stock Companies' Journal ,1898 **Ann Arbor, Michigan City Directory** ,2002 Jan 2003 7 directories in 1 section 1 alphabetical section section 2 business section section 3 telephone number section section 4 street guide section 5 map section section 6 movers section 7 demographic summary

The Enigmatic Realm of **June 2013 Mei C4**: Unleashing the Language is Inner Magic

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