

## II P.U.C PREPARATORY EXAM JAN/FEB - 2023

Time: 3 hours 15 minute

MATHEMATICS (35)

Max. Marks: 100

### Instructions:

- 1) The question paper has five parts namely A, B, C, D and E. Answer all the parts.
- 2) Part A has 10 Multiple choice questions, 5 Fill in the blanks and 5 Very Short Answer questions of 1 mark each.
- 3) Part A should be answered continuously at one or two pages of Answer sheet and Only first answer is considered for the marks in subsection I and II of Part A.
- 4) Use the graph sheet for question on linear programming in PART E.

### PART - A

#### I Answer ALL the Multiple Choice Questions

10 × 1 = 10

1. Let  $R$  be a relation in the set  $N$  given by  $R = \{(a, b) : a - b = 2, b > 6\}$ . Choose the correct answer  
(A)  $(2, 4) \in R$  (B)  $(3, 8) \in R$  (C)  $(6, 8) \in R$  (D)  $(8, 7) \in R$
2. If  $\sin^{-1} x = y$ , then  
(A)  $0 \leq y \leq \pi$  (B)  $-\frac{\pi}{2} \leq y \leq \frac{\pi}{2}$  (C)  $0 < y < \pi$  (D)  $-\frac{\pi}{2} < y < \frac{\pi}{2}$
3. The number of possible matrices of order  $3 \times 3$  with each entry 0 or 1 is  
(A) 27 (B) 18 (C) 81 (D) 512
4. Let  $A$  be a non singular square matrix of order  $3 \times 3$ , then  $|adj A|$  is equal to  
(A)  $|A|$  (B)  $|A|^2$  (C)  $|A|^3$  (D)  $3|A|$
5. The function  $f(x) = [x]$ , where  $[x]$  denotes the greatest integer function is continuous at  
(A) 4 (B) -2 (C) 1 (D) 1.5
6.  $\int \frac{\sin^2 x - \cos^2 x}{\sin^2 x \cos^2 x} dx$  is equal to  
(A)  $\tan x + \cot x + C$  (B)  $\tan x - \cot x + C$  (C)  $\tan x \cot x + C$  (D)  $\tan x - \cot 2x + C$
7. If  $\theta$  is the angle between any two vectors  $\vec{a}$  and  $\vec{b}$ , then  $|\vec{a} \cdot \vec{b}| = |\vec{a} \times \vec{b}|$  when  $\theta$  is equal to  
(A) 0 (B)  $\frac{\pi}{2}$  (C)  $\frac{\pi}{4}$  (D)  $\pi$
8. A line makes equal angles with co-ordinate axes. Direction cosines of this line are  
(A)  $\pm(1, 1, 1)$  (B)  $\pm(\frac{1}{\sqrt{3}}, \frac{1}{\sqrt{3}}, \frac{1}{\sqrt{3}})$  (C)  $\pm(\frac{1}{3}, \frac{1}{3}, \frac{1}{3})$  (D)  $\pm(\frac{1}{\sqrt{3}}, \frac{-1}{\sqrt{3}}, \frac{-1}{\sqrt{3}})$
9. Corner points of the feasible region determined by the system of constraints are  $(0, 3)$ ,  $(1, 1)$  and  $(3, 0)$ . Let  $Z = px + qy$ , where  $p, q > 0$ . Condition on  $p$  and  $q$  so that the minimum of  $Z$  occurs at  $(3, 0)$  and  $(1, 1)$  is  
(A)  $p = 2q$  (B)  $p = \frac{q}{2}$  (C)  $p = 3q$  (D)  $p = q$
10. If  $P(A) = 0.8$ ,  $P(B) = 0.5$  and  $P(B|A) = 0.4$ , then  $P(A \cap B)$  is equal to  
(A) 0.12 (B) 0.20 (C) 0.32 (D) 0.9



# Mathematics Paper 2014 Preparatory Examination

**Alan Rogerson, Janina Morska**





## **Mathematics Paper 2014 Preparatory Examination:**

**IJER Vol 25-N3** International Journal of Educational Reform,2016-12-20 The mission of the International Journal of Educational Reform IJER is to keep readers up to date with worldwide developments in education reform by providing scholarly information and practical analysis from recognized international authorities As the only peer reviewed scholarly publication that combines authors voices without regard for the political affiliations perspectives or research methodologies IJER provides readers with a balanced view of all sides of the political and educational mainstream To this end IJER includes but is not limited to inquiry based and opinion pieces on developments in such areas as policy administration curriculum instruction law and research IJER should thus be of interest to professional educators with decision making roles and policymakers at all levels turn since it provides a broad based conversation between and among policymakers practitioners and academicians about reform goals objectives and methods for success throughout the world Readers can call on IJER to learn from an international group of reform implementers by discovering what they can do that has actually worked IJER can also help readers to understand the pitfalls of current reforms in order to avoid making similar mistakes Finally it is the mission of IJER to help readers to learn about key issues in school reform from movers and shakers who help to study and shape the power base directing educational reform in the U S and the world

**100 Activities for Teaching Research Methods** Catherine Dawson,2016-08-08 A sourcebook of exercises games scenarios and role plays this practical user friendly guide provides a complete and valuable resource for research methods tutors teachers and lecturers Developed to complement and enhance existing course materials the 100 ready to use activities encourage innovative and engaging classroom practice in seven areas finding and using sources of information planning a research project conducting research using and analyzing data disseminating results acting ethically developing deeper research skills Each of the activities is divided into a section on tutor notes and student handouts Tutor notes contain clear guidance about the purpose level and type of activity along with a range of discussion notes that signpost key issues and research insights Important terms related activities and further reading suggestions are also included Not only does the A4 format make the student handouts easy to photocopy they are also available to download and print directly from the book s companion website for easy distribution in class

## **The Mathematics Education for the Future Project - Proceedings of the 14th International Conference**

Alan Rogerson,Janina Morska,2017-07-01 This volume contains the papers presented at the International Conference on Challenges in Mathematics Education for the Next Decade held from September 10 15 2017 in Balatonf red Hungary The Conference was organized by The Mathematics Education for the Future Project an international educational project founded in 1986

*Daily Graphic* Ransford Tetteh,2014-04-24      *Academic Practice* Saranne Weller,2015-10-31 Lecturers if you would like to order an e Inspection copy go here to order Taking a broad contemporary view of higher education this book explores key topics that all academics will need to engage with in order to survive and flourish in today s increasingly



complex higher education environment Key topics include connecting research and teaching in practice promoting critical approaches to the curriculum teaching for employability and understanding graduate identity responding to the internationalisation agenda engaging with the demands of the digital university enacting interdisciplinary approaches to teaching and scholarship enabling inclusive approaches to student engagement and student voice Policy and practice debates informing these different areas are explored alongside practical guidance on how to implement and integrate key priorities into the different dimensions of their professional practice This is essential reading for higher education faculty undertaking professional development courses such as the PG Certificate in Academic Practice PGCAP the PG Certificate in Teaching and Learning in Higher Education PGCTLHE PGHE and related courses and also for early career academics wishing to deepen their understanding of contemporary higher education

**The Psychology of Asian Learners** Ronnel B. King, Allan B. I. Bernardo, 2015-10-12 This book celebrates the scholarly achievements of Prof David A Watkins who has pioneered research on the psychology of Asian learners and helps readers grasp the cognitive motivational developmental and socio cultural aspects of Asian learners learning experiences A wide range of empirical and review papers which examine the characteristics of these experiences as they are shaped by both the particularities of diverse educational systems cultural milieus and universal principles of human learning and development are showcased The individual chapters which explore learners from fourteen Asian countries autonomous regions and or economies build on research themes and approaches from Prof Watkins research work and are proof of the broad importance and enduring relevance of his seminal psychological research on learners and the learning process

**Validating Technological Innovation** David Coniam, Peter Falvey, 2016-04-02 This book discusses Hong Kong s use of onscreen marking OSM in public examinations Given that Hong Kong leads the way in OSM innovation this book has arisen from a recognised need to provide a comprehensive coherent account of the findings of various separate but linked validation studies of onscreen public examinations in Hong Kong The authors discuss their experience of the validation process demonstrating how high stakes innovation should be fully validated by a series of research studies in order to satisfy key stakeholders

**Mobile Learning and Mathematics** Helen Crompton, John Traxler, 2015-02-11 Mobile Learning and Mathematics provides an overview of current research on how mobile devices are supporting mathematics educators in classrooms across the globe Through nine case studies chapter authors investigate the use of mobile technologies over a range of grade levels and mathematical topics while connecting chapters provide a strong foundational background in mobile learning theories instructional design and learner support For current educators Mobile Learning and Mathematics provides concrete ideas and strategies for integrating mobile learning into their mathematics instruction for example by sharing resources that will help implement Common Core State Standards or by streamlining the process of selecting from the competing and often confusing technology options currently available A cutting edge research volume this collection also provides a springboard for educational researchers to conduct further study



**Reinventing America's Schools** David Osborne, 2017-09-05 From David Osborne the author of *Reinventing Government* a biting analysis of the failure of America's public schools and a comprehensive plan for revitalizing American education In *Reinventing America's Schools* David Osborne one of the world's foremost experts on public sector reform offers a comprehensive analysis of the charter school movements and presents a theory that will do for American schools what his New York Times bestseller *Reinventing Government* did for public governance in 1992 In 2005 when Hurricane Katrina devastated New Orleans the city got an unexpected opportunity to recreate their school system from scratch The state's Recovery School District RSD created to turn around failing schools gradually transformed all of its New Orleans schools into charter schools and the results are shaking the very foundations of American education Test scores school performance scores graduation and dropout rates ACT scores college going rates and independent studies all tell the same story the city's RSD schools have tripled their effectiveness in eight years Now other cities are following suit with state governments reinventing failing schools in Newark Camden Memphis Denver Indianapolis Cleveland and Oakland In this book Osborne uses compelling stories from cities like New Orleans and lays out the history and possible future of public education Ultimately he uses his extensive research to argue that in today's world we should treat every public school like a charter school and grant them autonomy accountability diversity of school designs and parental choice

**Junior Graphic** Mavis Kitcher (Mrs), 2014-06-25 *Applied Learning in Higher Education*: Sok Mui Lim, Yong Lim Foo, Han Tong Loh, Xudong Deng, 2020 Today all institutions of higher education almost everywhere in the world have been influenced by the concept of globalisation The resulting policy changes in each nation state have of course reflected the degree of the impact of globalisation on the country hence the changes in higher education Banya 2005 p 147 This points to globalisation shaping knowledge production as well as the spread of intentional and continuous waves of innovation The effects of globalisation on education can be seen through a the changing paradigm from a closed system to a more open system and b the changing approach from a teacher centred learning environment to that of a learner centred environment This changing approach culminates in the broader ideas of applied learning through a a productive view of learning versus reproductive view of learning b constructivist versus behaviourist c learning facilitation versus teaching and d process based assessment versus outcome based assessment Rudic 2016

Promoting Spontaneous Use of Learning and Reasoning Strategies Emmanuel Manalo, Yuri Uesaka, Clark A. Chinn, 2017-10-03 In this book scholars from around the world develop viable answers to the question of how it may be possible to promote students spontaneity in the use of learning and reasoning strategies They combine their expertise to put forward new theories and models for understanding the underlying mechanisms provide details of new research to address pertinent questions and problems and describe classroom practices that have proven successful in promoting spontaneous strategy use This book is a must for educators and researchers who truly care that schooling should cultivate learning and reasoning strategies in students that would prepare and serve them for life A seminal



resource this book will address the basic problem that many educators are well acquainted with that students can learn how to effectively use learning and reasoning strategies but not use them of their own volition or in settings other than the one in which they learned the strategies

*Handbook of the Economics of Education*, 2023-11-02 Handbook of the Economics of Education Volume Seven describes the research frontier in key topical areas and sets the agenda for further work Sections in this new release include Methods for Measuring School Effectiveness Teacher Evaluation and Training U S School Finance Resources and Outcomes College Costs Financial Aid and Student Decisions Firm Training Multidimensional Human Capital and the Wage Structure and more By bringing together some of the world s leading scholars this volume provides a unique view of scholarship in the area The international perspectives of the editors Hanushek at Stanford Machin at LSE and Woessmann at Munich leads to a volume with something for all researchers Topics range from the economics of early childhood education to inequality in society to cash transfers in developing countries Identifies and evaluates the state of the art Includes clear descriptions of the meaning of existing research and the most likely avenues for the future Provides insights into how policy interventions in education can help or hurt human capital outcomes

Research and Development in University Mathematics Education Viviane Durand-Guerrier, Reinhard Hochmuth, Elena Nardi, Carl Winsløw, 2021-04-16 In the last thirty years or so the need to address the challenges of teaching and learning mathematics at university level has become increasingly appreciated by university mathematics teachers and beyond by educational institutions around the world Indeed mathematics is both a condition and an obstacle to success for students in many educational programmes vital to the 21st century knowledge society for example in pure and applied mathematics engineering natural sciences technology economics finance management and so on This breadth of impact of mathematics implies the urgency of developing research in university mathematics education and of sharing results of this research widely This book provides a bespoke opportunity for an international audience of researchers in didactics of mathematics mathematicians and any teacher or researcher with an interest in this area to be informed about state of the art developments and to heed future research agendas This book emerged from the activities of the research project INDRUM acronym for International Network for Didactic Research in University Mathematics which aims to contribute to the development of research in didactics of mathematics at all levels of tertiary education with a particular concern for the development of early career researchers in the field and for dialogue with university mathematicians The aim of the book is to provide a deep synthesis of the research field as it appears through two INDRUM conferences organised in 2016 and 2018 It is an original contribution which highlights key research perspectives addresses seminal theoretical and methodological issues and reports substantial results concerning the teaching and learning of mathematics at university level including the teaching and learning of specific topics in advanced mathematics across a wide range of university programmes

**International Handbook of Research in Statistics Education** Dani Ben-Zvi, Katie Makar, Joan Garfield, 2017-12-08 This handbook connects the practice of statistics to the teaching and learning



of the subject with contributions from experts in several disciplines Chapters present current challenges and methods of statistics education in the changing world for statistics and mathematics educators Issues addressed include current and future challenges in professional development of teachers use of technology tools design of learning environments and appropriate student assessments This handbook presents challenging and inspiring international research perspectives on the history and nature current issues and future directions of statistics education and statistics education research

*Researching the History of Mathematics Education* Fulvia Furinghetti,Alexander Karp,2017-12-04 This book offers insights into the history of mathematics education covering both the current state of the art of research and the methodology of the field History of mathematics education is treated in the book as a part of social history This book grew out of the presentations delivered at the International Congress on Mathematics Education in Hamburg Modern development and growing internationalization of mathematics education made it clear that many urgent questions benefit from a historical approach The chapters present viewpoints from the following countries Belgium Brazil Cambodia China Cyprus Germany Iceland Italy the Netherlands Russia Spain and Sweden Each chapter represents significant directions of historical studies The book is a valuable source for every historian of mathematics education and those interested in mathematics education and its development *Christian Budget and News of the Day* ,1891 **Learning and Teaching Early Math** Douglas H.

Clements,Julie Sarama,2020-12-29 The third edition of this significant and groundbreaking book summarizes current research into how young children learn mathematics and how best to develop foundational knowledge to realize more effective teaching Using straightforward practical language early math experts Douglas Clements and Julie Sarama show how learning trajectories help teachers understand children s level of mathematical understanding and lead to better teaching By focusing on the inherent delight and curiosity behind young children s mathematical reasoning learning trajectories ultimately make teaching more joyous helping teachers understand the varying levels of knowledge exhibited by individual students it allows them to better meet the learning needs of all children This thoroughly revised and contemporary third edition of Learning and Teaching Early Math remains the definitive research based resource to help teachers understand the learning trajectories of early mathematics and become confident credible professionals The new edition draws on numerous new research studies offers expanded international examples and includes updated illustrations throughout This new edition is closely linked with Learning and Teaching with Learning Trajectories LT 2 an open access web based tool for early childhood educators to learn about how children think and learn about mathematics Head to LearningTrajectories.org for ongoing updates interactive games and practical tools that support classroom learning **ICEL 2018 13th International Conference on e-Learning** Professor Eunice Ivala,2018-07-05 **The Cultural Defense of Nations** Liav Orgad,2015-11-05 The Cultural Defense of Nations presents a timely thought provoking thesis on some of the most pressing issues of our time global immigration majority groups and national identity Never in human history has so



much attention been paid to human movement Global migration yields demographic shifts of historical significance profoundly shaking up world politics as has been seen in the refugee crisis the Brexit referendum and the 2016 U S election The Cultural Defense of Nations addresses one of the greatest challenges facing liberalism today is a liberal state justified in restricting immigration and access to citizenship in order to protect its majority culture Liberal theorists and human rights advocates recognize the rights of minorities to maintain their unique cultural identity but assume that majorities have neither a need for similar rights nor a moral ground for defending them The majority culture so the argument goes can take care of itself However with more than 250 million immigrants worldwide majority groups increasingly seek to protect what they consider to be their national identity In recent years liberal democracies have introduced proactive immigration and citizenship policies that are designed to defend the majority culture This book shifts the focus from the prevailing discussion of cultural minority rights and for the first time addresses the cultural rights of majorities It proposes a new approach by which liberal democracies can welcome immigrants without fundamentally changing their cultural heritage forsaking their liberal traditions or slipping into extreme nationalism Disregarding the topic of cultural majority rights is not only theoretically wrong but also politically unwise With forms of majority nationalism rising and the growing popularity of extreme right wing parties in the West time has come to liberally address the new challenge



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### **Table of Contents Mathematics Paper 2014 Preparatory Examination**

1. Understanding the eBook Mathematics Paper 2014 Preparatory Examination
  - The Rise of Digital Reading Mathematics Paper 2014 Preparatory Examination
  - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Paper 2014 Preparatory Examination
  - 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 Mathematics Paper 2014 Preparatory Examination
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Paper 2014 Preparatory Examination
  - Personalized Recommendations
  - Mathematics Paper 2014 Preparatory Examination User Reviews and Ratings
  - Mathematics Paper 2014 Preparatory Examination and Bestseller Lists



5. Accessing Mathematics Paper 2014 Preparatory Examination Free and Paid eBooks
  - Mathematics Paper 2014 Preparatory Examination Public Domain eBooks
  - Mathematics Paper 2014 Preparatory Examination eBook Subscription Services
  - Mathematics Paper 2014 Preparatory Examination Budget-Friendly Options
6. Navigating Mathematics Paper 2014 Preparatory Examination eBook Formats
  - ePub, PDF, MOBI, and More
  - Mathematics Paper 2014 Preparatory Examination Compatibility with Devices
  - Mathematics Paper 2014 Preparatory Examination Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mathematics Paper 2014 Preparatory Examination
  - Highlighting and Note-Taking Mathematics Paper 2014 Preparatory Examination
  - Interactive Elements Mathematics Paper 2014 Preparatory Examination
8. Staying Engaged with Mathematics Paper 2014 Preparatory Examination
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mathematics Paper 2014 Preparatory Examination
9. Balancing eBooks and Physical Books Mathematics Paper 2014 Preparatory Examination
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mathematics Paper 2014 Preparatory Examination
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Mathematics Paper 2014 Preparatory Examination
  - Setting Reading Goals Mathematics Paper 2014 Preparatory Examination
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics Paper 2014 Preparatory Examination
  - Fact-Checking eBook Content of Mathematics Paper 2014 Preparatory Examination
  - 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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