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Maximum Marks: 80

Time allowed: Two and half hours

Answers to this Paper must be written on the paper provided separately.

You will not be allowed to write during first 15 minutes.

This time is to be spent in reading the question paper.

The time given at the head of this Paper is the time allowed for writing the answers.

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Attempt all questions from Section A and any four questions from Section B.  
**All working, including rough work, must be clearly shown, and must be done on the same sheet as the rest of the answer.**

**Omission of essential working will result in loss of marks.**

The intended marks for questions or parts of questions are given in brackets [ ]

**Mathematical tables and graph papers are provided.**

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**SECTION A (40 Marks)**

(Attempt all questions from this Section.)

**Question 1**

Choose the correct answers to the questions from the given options.

[15]

(Do not copy the questions, write the correct answers only.)

(i) If  $\begin{bmatrix} 2 & 0 \\ 0 & 4 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 2 \\ -8 \end{bmatrix}$ , the value of x and y respectively are:

(a) 1, - 2

(b) - 2, 1

(c) 1, 2

(d) - 2, - 1

**Answer: (a)**

**Explanation:**

$$2x + 0y = 2$$

$$x = 1$$

$$0x + 4y = - 8$$

$$y = - 2$$

# March 2012 Maths Exam Paper

**M Walker**



### **March 2012 Maths Exam Paper:**

**Debates in Mathematics Education** Dawn Leslie, Heather Mendick, 2013-10-01 *Debates in Mathematics Education* explores the major issues that mathematics teachers encounter in their daily lives It engages with established and contemporary debates promotes and supports critical reflection and aims to stimulate both novice and experienced teachers to reach informed judgements and argue their point of view with deeper theoretical knowledge and understanding Written by experts in the field of mathematics education it investigates and offers fresh insight into topics of central importance including Gender social inequality and mathematics Mathematics politics and climate change The history and culture of mathematics Using popular culture in the mathematics classroom The concept of ability and its impact on learning What we mean by teaching for understanding Choosing and using examples in teaching The fitness of formal examinations Designed to stimulate discussion and support you in your own research writing and practice *Debates in Mathematics Education* will be a valuable resource for any student or practising teacher engaged in initial teacher training continuing professional development or Masters level study It also has much to offer to those leading initial teacher education programmes and to beginning doctoral students looking for a survey of the field of mathematics education research

***Debates in Mathematics Education*** Gwen Ineson, Hilary Povey, 2020-06-15 This new and updated second edition of *Debates in Mathematics Education* explores the major issues that mathematics teachers encounter in their daily lives By engaging with established and contemporary debates this volume promotes and supports critical reflection and aims to stimulate both novice and experienced teachers to reach informed judgements and argue their point of view with deeper theoretical knowledge and understanding Divided into five accessible sections this book investigates and offers fresh insight into topics of central importance in mathematics education with this second edition including new discussions and chapters on Classic and contemporary issues of pedagogy politics philosophy and sociology of mathematics education International comparisons of achievement Digital technologies for teaching Mastery in mathematics Pop culture and mathematics Whether mathematics can be harmful Designed to stimulate discussion and support you in your own research writing and practice through suggested questions and activities throughout *Debates in Mathematics Education* will be a valuable resource for any student or practising teacher and those engaged in initial teacher education continuing professional development or Master s level study This book also has much to offer to those leading mathematics departments in schools and initial teacher education programmes and to beginning doctoral students looking for a survey of the field of mathematics education research

**Complete Guide to Career Planning** DEVAJIT BHUYAN, 2015-06-01 Career planning has become a survival skill in today s world Choosing a Career should be by Choice and not by Chance But HOW TO CHOOSE THE RIGHT CAREER What are the factors one should consider while choosing a career A Complete Guide to Career Planning is about how to decide the direction your career will take The purpose behind writing this book is to make you conversant with the various career

options that you can pursue and enable you to select the right career you most fit in The author has meticulously explored and mapped the cavernous paths of the globe of careers which exist presently The book provides a straightforward introduction to the concepts of career choices and the importance of planning It emphasises the importance of self exploration by empowering readers to look at themselves their strengths and weaknesses and their background and values and then realistically evaluate the various opportunities in the world of career With this comprehensive guide a student can learn how to explore career options plan a career path and find the right school and colleges for higher studies that will help him achieve his goals easily and convincingly The book includes all the information you need to plan your future and take control of your career *ECMLG2012-Proceedings of the 8th European Conference on Management, Leadership and Governance* John Politis,2012 Published by Academic Conferences and Publishing International Limited Edited by Professor John Politis Neapolis University Pafos Cyprus CD version of the proceedings of the 8th European Conference on Management Leadership and Governance ECMLG 2012 hosted by the Neapolis University on the 8 9 November 2012 567 pages

**Equity Derivatives and Hybrids** Oliver Brockhaus,2016-04-29 Since the development of the Black Scholes model research on equity derivatives has evolved rapidly to the point where it is now difficult to cut through the myriad of literature to find relevant material Written by a quant with many years of experience in the field this book provides an up to date account of equity and equity hybrid equity rates equity credit equity foreign exchange derivatives modeling from a practitioner s perspective The content reflects the requirements of practitioners in financial institutions Quants will find a survey of state of the art models and guidance on how to efficiently implement them with regards to market data representation calibration and sensitivity computation Traders and structurers will learn about structured products selection of the most appropriate models as well as efficient hedging methods while risk managers will better understand market credit and model risk and find valuable information on advanced correlation concepts Equity Derivatives and Hybrids provides exhaustive coverage of both market standard and new approaches including Empirical properties of stock returns including autocorrelation and jumps Dividend discount models Non Markovian and discrete time volatility processes Correlation skew modeling via copula as well as local and stochastic correlation factors Hybrid modeling covering local and stochastic processes for interest rate hazard rate and volatility as well as closed form solutions Credit debt and funding valuation adjustment CVA DVA FVA Monte Carlo techniques for sensitivities including algorithmic differentiation path recycling as well as multilevel Written in a highly accessible manner with examples applications research and ideas throughout this book provides a valuable resource for quantitative minded practitioners and researchers **Assessing Academic Literacy in a Multilingual Society** Albert Weideman,John Read,Theo du Plessis,2020-11-02 South African universities face major challenges in meeting the needs of their students in the area of academic language and literacy The dominant medium of instruction in the universities is English and to a much lesser extent Afrikaans but only a minority of the

national population are native speakers of these languages Nine other languages can be media of instruction in schools which makes the transition to tertiary education difficult enough in itself for students from these schools The focus of this book is on procedures for assessing the academic language and literacy levels and needs of students not in order to exclude students from higher education but rather to identify those who would benefit from further development of their ability in order to undertake their degree studies successfully The volume also aims to bring the innovative solutions designed by South African educators to a wider international audience

*Exploring childhood in a comparative context* Mabel Ann Brown, Jon White, 2013-09-05 Exploring Childhood in a Comparative Context meets an increasing need for students focusing on early childhood to be familiar with alternative practices in other countries Providing a ready made source of information about a wide range of countries including Finland the Netherlands the United States New Zealand Japan South Africa and many more the book clearly describes the way each country understands and conceptualises childhood Each chapter includes contextual information about the country an introduction to the theory that has shaped practice and describes the curriculum for pre school and primary education Including vignettes from practitioners working in each country to illustrate practice the chapters explore key themes such as Child development Parental involvement Teaching and learning Professionalism Assessment Pupil experience Accessibly written and including opportunities for reflection this timely new book will give students a valuable insight into alternative education systems that is essential if they are to become practitioners with a current and global approach

**Making of the IIT Brand** Davender Jain, 2022-05-24 This book is an attempt to look at the ordinary IITians the dreams they had the hardships and challenges they faced and the difference they made as told by the IITians themselves The book does not seek to glorify any particular IITian or focus on individual accomplishments Instead it looks at the stories of IITians from the first graduating class of 1955 till today The book is a chronicle of the history of IITs in a uniquely personal way and their contributions to India and in fact the whole world It looks at the making of the IIT brand Through the stories of IIT alumni readers may find answers to the question of what attracts global multinationals to IIT campuses to recruit at salaries similar to those of MIT and Harvard graduates The book is intended to be a light and interesting read Having said this it may be of particular interest to youngsters across the world who are interested in knowing about the struggles and success stories of IIT alumni students aspiring to enter IIT current students and faculty of new IITs who want to understand the culture and life of alumni in the older IITs people abroad who have heard the name of IIT and the accomplishments of its alumni people who want to know how the IIT brand came into existence and whose entrance exam is the most competitive exam in the world the loved ones of numerous alumni who have narrated their stories in this book This book is meant to be cherished by IIT alumni current IITians and the future generation of IITians

**The Parliamentary Debates (Hansard).** Great Britain. Parliament. House of Lords, 2010 *The Times Index*, 2011 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement

Scotland and the Times higher education supplement      **The Economist** ,2012      Commonwealth Universities Yearbook T. Craig,Hugh W. Springer,1979      *Parliamentary Debates (Hansard)*. Great Britain. Parliament. House of Commons,2014  
**Science Citation Index** ,1994 Vols for 1964 have guides and journal lists      **Forthcoming Books** Rose Arny,2003  
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