

Jee Advance 2013

Mathematics Paper- II

PART III - MATHEMATICS

SECTION - 1 : (One or more options correct Type)

This section contains 8 multiple choice questions. Each question has four choices (A), (B), (C) and (D), out of which **ONE or MORE** are correct.

41. In a triangle PQR , P is the largest angle and $\cos P = 1/3$. Further the incircle of the triangle touches the sides PQ , QR and RP at N , L and M respectively, such that the lengths of PN , QL and RM are consecutive even integers. Then possible length(s) of the side(s) of the triangle is(are)

(A) 16 (B) 18 (C) 24 (D) 22

41. (BD) $PM = 2k - 2$, $RL = 2k + 2$, $QN = 2k$
 $PQ = 4k - 2$, $QR = 4k + 2$, $RP = 4k$

$$\cos P = \frac{1}{3} = \frac{(4k-2)^2 + 16k^2 - (4k+2)^2}{2(4k-2) \cdot 4k} \Rightarrow k = 0, 5$$

For $k = 0$, PQ is negative.

For $k = 5$, sides 18, 20, 22 units.

42. Two lines $L_1 : x = 5$, $\frac{y}{3-\alpha} = \frac{z}{-2}$ and $L_2 : x = \alpha$, $\frac{y}{-1} = \frac{z}{2-\alpha}$ are coplanar. Then α can take value(s)

(A) 1 (B) 2 (C) 3 (D) 4

42. (AD) Point on first line can be considered as $(5, 3-\alpha, -2)$

Point on second line : $(\alpha, -1, 2-\alpha)$

$$\begin{vmatrix} 5-\alpha & 4-\alpha & \alpha-4 \\ 0 & 3-\alpha & -2 \\ 0 & -1 & 2-\alpha \end{vmatrix} = 0 \Rightarrow \begin{vmatrix} 5-\alpha & 0 & \alpha-4 \\ 0 & 1-\alpha & -2 \\ 0 & 1-\alpha & 2-\alpha \end{vmatrix} = 0$$

$$\Rightarrow (1-\alpha) \begin{vmatrix} 5-\alpha & 0 & \alpha-4 \\ 0 & 1 & -2 \\ 0 & 1 & 2-\alpha \end{vmatrix} = 0 \Rightarrow (1-\alpha) [(5-\alpha)(4-\alpha)] = 0$$

$$\Rightarrow \alpha = 1, 4, 5.$$

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AW Rasmussen



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Rescue Ian Goldin, 2021-05-13 An optimistic vision of the future after Covid 19 by a leading professor of globalisation at the University of Oxford Covid 19 left us at a crossroads should we go back to normal or use the lessons learned during the pandemic to shape a new society But what does life after a pandemic look like and how do we build a better more hopeful future Ian Goldin Professor of Development and Globalisation at the University of Oxford provides an urgently needed roadmap that reveals how the pandemic could lead to a better world from globalisation to the future of jobs income inequality and climate change Rescue is a bold call for an optimistic future and one we all have the power to create

Making Every Maths Lesson Count Emma McCrea, 2019-05-01 In Making Every Maths Lesson Count Six principles to support great maths teaching experienced maths teacher and lecturer Emma McCrea takes away the guesswork as she sums up the key components of effective maths teaching Maths classrooms are incredibly complex places At any given time the factors influencing the effectiveness of your teaching are boundless and this can lead to relying on intuition as to what might work best This book aims to signpost a route through this complexity Writing in the practical engaging style of the award winning Making Every Lesson Count Emma McCrea helps teachers to move beyond trial and error by sharing evidence informed tips and suggestions on how they can nudge the impact of their teaching in the right direction Making Every Maths Lesson Count is underpinned by six pedagogical principles challenge explanation modelling practice feedback and questioning and presents 52 high impact strategies designed to streamline teacher workload and ramp up the level of challenge in the maths classroom The book draws out the key findings from the latest research on memory learning and motivation and each chapter features numerous worked examples to demonstrate the theory in action together with a concluding series of questions that will help maths practitioners relate the content to their own classroom practice Furthermore Emma s writing offers clarity around the language of maths teaching and learning and also delves into the finer points of how to identify and address any misconceptions that students may hold Written for new and experienced practitioners alike this gimmick free guide provides sensible solutions to perennial problems and inspires a rich challenging and evidence based approach to the teaching of maths Suitable for maths teachers of students aged 11 to 18 years and for primary school maths specialists

Independent Schools Yearbook 2012-2013 none, 2013-06-20 The highly respected book of reference of sought after Independent Schools in membership of the Independent Schools Council s Associations HMC GSA The Society of Heads IAPS ISA and COBIS

International Handbook of Mathematical Learning

Difficulties Annemarie Fritz, Vitor Geraldi Haase, Pekka Räsänen, 2019-01-30 This comprehensive volume provides teachers researchers and education professionals with cutting edge knowledge developed in the last decades by the educational behavioural and neurosciences integrating cognitive developmental and socioeconomic approaches to deal with the problems children face in learning mathematics The neurocognitive mechanisms and the cognitive processes underlying acquisition of

arithmetic abilities and their significance for education have been the subject of intense research in the last few decades but the most part of this research has been conducted in non applied settings and there s still a deep discrepancy between the level of scientific knowledge and its implementation into actual educational settings Now it s time to bring the results from the laboratory to the classroom Apart from bringing the theoretical discussions to educational settings the volume presents a wide range of methods for early detection of children with risks in mathematics learning and strategies to develop effective interventions based on innovative cognitive test instruments It also provides insights to translate research knowledge into public policies in order to address socioeconomic issues And it does so from an international perspective dedicating a whole section to the cultural diversity of mathematics learning difficulties in different parts of the world All of this makes the International Handbook of Mathematical Learning Difficulties an essential tool for those involved in the daily struggle to prepare the future generations to succeed in the global knowledge society

How to Recognise and Support Mathematical Mastery in Young Children's Play Di Chilvers, 2021-07-12 This book explains how young children develop mathematically in their earliest years and shows the support and teaching needed by adults to accelerate their progress and attainment helping them master mathematical concepts and skills The practical guidance has been carefully developed over a number of years and is based on research undertaken with primary schools in Sheffield as part of the Talk for Maths Mastery initiative It recognises that children s mathematical development is embedded within child led play and connected to deeper levels of thinking and wider dispositions for learning Maths is happening everywhere at any moment we just need to keep an open mind open eyes and listen Including case studies links to practice and reflective questions the chapters reveal what mastery orientation looks like from the children s perspective in their learning and covers children s serve and return conversational talk mathematical babies and their developmental momentum schematic patterns of thinking mathematical mark making child led play problem solving creative and critical thinking how adults can support children s mathematical talk thinking and mastery This book will help all early years practitioners and teachers working with children throughout the EYFS and KS1 build their understanding knowledge experience and confidence of engaging in early mathematics

The Intersection of International Achievement Testing and Educational Policy Louis Volante, 2016-06-10 Educational systems around the world look to student assessment programs as they initiate reforms and revise educational policies to increase student achievement This edited volume examines the intersection of international achievement testing and education policy development in key countries around the world exploring how assessments can inform curriculum pedagogy strategic planning and ultimately determine large scale education policy and governance Noted chapter contributors explore how educational leadership and governance issues have been influenced by assessment programs across a range of political economic cultural and educational contexts The Intersection of International Achievement Testing and Education Policy provides educators academics and policymakers with cultural insights historical contexts and a framework for negotiating

and understanding the consequences of educational policy decisions in schools

Effective Teaching Daniel Muijs, David Reynolds, 2017-10-16 This new edition of the popular textbook digs into the research behind different aspects of teaching in order to give students an informed understanding of what underpins high quality teaching It explores what the evidence shows about the effectiveness of different approaches drawing from a variety of educational schools of thought New to this edition enhanced discussion of what we can learn from cognitive science research new chapters on metacognition and thinking skills teacher subject knowledge evaluating teacher performance and international comparisons on teaching new Further Reading and Think Point features encouraging critical engagement with key research findings This is essential reading for all students on initial teacher education courses including undergraduate postgraduate School Direct Teach First and employment based routes into teaching and also qualified teachers wanting to deepen their understanding of educational research

For the Love of Learning Tim Bilham, 2013-11-11 Edited collection featuring essays from exceptional National Teaching Fellows Presents the cutting edge of pedagogical thinking on the most important topics in higher education today including student engagement assessment internationalisation and employability Destined to become a must read guide for anyone involved in higher education

The Armed Forces Covenant in action? Great Britain: Parliament: House of Commons: Defence Committee, 2013-07-18 A series of Ofsted inspections on Army Apprenticeships conducted in 2013 rated the overall effectiveness as good This was an improvement over the last inspection in 2009 rated as satisfactory now called requires improvement Some 28 per cent of Army recruits were less than 18 years of age Further information is needed on why the Army is so dependent on recruiting personnel under the age of 18 years compared to the other two Services and whether steps are being taken to reduce this dependency Of those recruited in 2012 3 5 per cent of the Army were rated at entry level 2 for literacy that of a 7 to 8 year old and 39 per cent had a literacy level of an eleven year old If as the MoD states it has to recruit personnel at whatever level of attainment is available then it should boost remedial action when recruitment entry standards are particularly low In light of changes brought about by Future Force 2020 it may be that recruiting personnel with higher levels of attainment would better meet the future needs of the Armed Forces Whilst the Committee recognises that some recruits may not be eager to take further academic exams the MoD should encourage more recruits to undertake English and Maths GCSEs which would stand them in good stead for future employment The MoD has carried out some useful pilot projects with paramedic training and should identify more potential projects to ensure that vital skills paid for by the MoD are not lost to the country

The Routledge Companion to Accounting Education Richard M.S. Wilson, 2014-04-29 Many enquiries into the state of accounting education training undertaken in several countries over the past 40 years have warned that it must change if it is to be made more relevant to students to the accounting profession and to stakeholders in the wider community This book s over riding aim is to provide a comprehensive and authoritative source of reference which defines the domain of accounting education training and which provides a critical overview of the

state of this domain including emerging and cutting edge issues as a foundation for facilitating improved accounting education training scholarship and research in order to enhance the educational base of accounting practice The Routledge Companion to Accounting Education highlights the key drivers of change whether in the field of practice on the one hand e g increased regulation globalisation risk and complexity or from developments in the academy on the other e g pressures to embed technology within the classroom or to meet accreditation criteria on the other Thirty chapters written by leading scholars from around the world are grouped into seven themed sections which focus on different facets of their respective themes including student curriculum pedagogic and assessment considerations

Dictionary Catalog of the Department Library United States. Department of the Interior. Library, 1969

Time Now: The True Nature of Reality Colin Gillespie, 2025-09-16 Time Now will change the way you think about reality Physicist and author Colin Gillespie brings together centuries of ancient thought and modern insights to unearth what is real and what is not He tells the story of our universe from the very beginning before the Big Bang and reveals to us a whole new view of time Gillespie writes with humor and gives deft explanations of complex concepts He helps us find the inner truths about the universe and about ourselves And he does it in a way that is accessible inspiring and entertaining

Critical Perspectives on Gender Equality Policies and Practices for Staff in Higher Education Sarah Barnard, Gail Crimmins, 2022-09-13

Society in Focus William E. Thompson, Joseph V. Hickey, Mica L. Thompson, 2016-04-20 Examining the role of mass media and information technology in contemporary society Society In Focus Eighth Edition emphasizes the increasing diversity and globalization of societies everywhere It is designed to help students think clearly and critically about sociological issues concepts and methods Questioning is at the heart of this approach and as students read this book they are encouraged to become part of the sociological enterprise rather than remain passive observers Every element of the text is designed to challenge students to evaluate social issues and guided by the sociological imagination to clearly formulate their own positions By asking questions that demand sociological and creative thought students are reminded that their conclusions and decisions as well as their non decisions and inaction may have important social consequences New to this edition New coauthor Mica Thompson an experienced teacher of introduction to sociology brings a fresh new perspective as well as a wide array of different life experiences to this edition of Society in Focus An expanded critical analysis in Chapter 1 introduces all forms of media and technology and every chapter examines an aspect of their powerful social influence Chapters 9 16 and 17 have been updated to include the most recent worldwide financial and economic developments to help explain globalization and cultural diversity Expanded application of feminist theory in every chapter to help students recognize the importance of gender diversity and the contributions of that theoretical perspective in sociology Updated and brand new boxes throughout encourage students to take a closer look at society and selected social issues

Blockchain und maschinelles Lernen Sigurd Schacht, Carsten Lanquillon, 2019-11-27 Durch Bitcoin wurde die Blockchain als zugrundeliegende Technologie

bekannt Sie z hlt zu den Distributed Ledger Technologien die zuk nftig viele Bereiche des wirtschaftlichen Handels beeinflussen werden So bergen dezentrale autonome Anwendungen enormes Potenzial nicht nur Prozesse sondern auch Vertragsabstimmungen zu automatisieren Beispielsweise kann ein automatisiertes wirtschaftliches Handeln zwischen Maschinen erm glicht werden Um einen derart hohen Automatisierungsgrad zu erreichen m ssen datenbasierte Entscheidungen autonom ohne menschliches Zutun getroffen werden Maschinelle Lernverfahren k nnen dabei eine zentrale Komponente bei der Entscheidungsfindung einnehmen Das Buch stellt erstmalig die komplement ren Themengebiete Distributed Ledger Technologie und maschinelles Lernen gegen ber und zeigt auf welches Potenzial freigesetzt werden kann wenn beide Technologien zielf hrend miteinander verbunden werden Das Buch ist eine unverzichtbare Lekt re f r diejenigen die sich tiefgreifendes Wissen in der Kombination beider Themengebiete aufbauen wollen indem einerseits die theoretischen Grundlagen und andererseits auch m gliche Anwendungsszenarien dargestellt werden **Forthcoming Books** Rose Army,2002 Journal of Psychology in Africa ,2009

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