

Class : XI

Subject : Mathematics

Time : 3 hrs

FM : 75

[Candidates are required to give their answer in their own words as far as practicable the figure on the right side indicates full marks.]

Attempt all questions

Group – A

1 × 11 = 11

Rewrite the correct option in your own answer sheet.

1. For any two real numbers x and y
 - a) $|x + y| \leq |x| - |y|$
 - b) $|x + y| \leq |x| + |y|$
 - c) $|x + y| \geq |x| - |y|$
 - d) $|x + y| \geq |x| + |y|$
2. What is the order of product of matrix BA , if $A = \begin{bmatrix} 2 & 3 \\ 1 & 5 \\ 3 & 4 \end{bmatrix}$ and $B = \begin{bmatrix} 3 & 2 & 6 \\ 1 & 8 & 7 \end{bmatrix}$?
 - a) 2×2
 - b) 2×3
 - c) 3×2
 - d) 3×3
3. The intersection point of medians of a triangle is called
 - a) circumcenter
 - b) Orthocenter
 - c) Centroid
 - d) incenter
4. The relation between A.M, G.M. and H.M is
 - a) $A.M. \leq G.M. \leq H.M.$
 - b) $A.M. < G.M. < H.M.$
 - c) $A.M. \geq G.M. \geq H.M.$
 - d) $A.M. > G.M. > H.M.$
5. The value of a complex number $(0, 1)^{41}$ is
 - a) $-i$
 - b) i
 - c) -1
 - d) 1
6. The relation of skewness is
 - a) $\text{mean} > \text{median} > \text{mode}.$
 - b) $\text{mean} < \text{median} < \text{mode}.$
 - c) $\text{mean} = \text{median} = \text{mode}.$
 - d) all of the above
7. A coin is tossed successively three times. What is the probability of getting all are heads.
 - a) $\frac{1}{8}$
 - b) $\frac{3}{8}$
 - c) $\frac{7}{8}$
 - d) $\frac{5}{8}$
8. The limiting value of $\lim_{\theta \rightarrow 0} \frac{\sin \theta}{\theta}$ is
 - a) $\frac{0}{0}$
 - b) 0
 - c) 1
 - d) ∞
9. The derivative of $\cos 5x$ is
 - a) $5 \cos 5x$
 - b) $5 \sin 5x$
 - c) $-\sin 5x$
 - d) $-5 \sin 5x$
10. The value of integration, $I = \int_1^2 x^3 dx$ is
 - a) 7
 - b) $\frac{3}{4}$
 - c) 4
 - d) $\frac{5}{4}$
11. In the equilibrium market, there is
 - a) demand $>$ supply
 - b) demand $<$ supply
 - c) demand $=$ supply
 - d) all of above

Maths Paper1 2014 Grade 11 Final Exam

Dawei Zheng



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deviate from rules imposed by strict normative theories of inference Yet these deviations should not be called errors as Cognitive Psychologists have demonstrated these deviations may be either valid heuristics that succeed in the environments in which humans have evolved or biases that are caused by a lack of adaptation to abstract information formats Humans as the cognitive psychologist and economist Herbert Simon claimed do not usually optimize but rather satisfice even when solving problem This Research Topic aims at demonstrating that these insights have had a decisive impact on Mathematics Education We want to stress that we are concerned with the view of bounded rationality that is different from the one espoused by the heuristics and biases program In Simon s bounded rationality and its direct descendant ecological rationality rationality is understood in terms of cognitive success in the world correspondence rather than in terms of conformity to content free norms of coherence e g transitivity Debates in Geography Education Mark Jones,David Lambert,2017-09-07 Debates in Geography Education encourages early career teachers experienced teachers and teacher educators to engage with and reflect on key issues concepts and debates It aims to enable readers to reach their own informed judgements with deeper theoretical knowledge and understanding The second edition is fully updated in light of the latest research policy and practice in the field as well as key changes to the curriculum and examination specifications Expert contributors provide a range of perspectives on international historical and policy contexts in order to deepen our understanding of significant debates in geography education Key debates include geography s identity as an academic discipline what constitutes knowledge in geography places and regional geography what it means to think geographically constructing the curriculum how we link assessment to making progress in geography the contribution of fieldwork and outdoor experiences technology and the use of Geographical Information school geography and employability understanding the gap between school and university geography evidence based practice and research in geography education The comprehensive rigorous coverage of these key issues together with carefully annotated selected further reading will help support and shape further research and writing Debates in Geography Education is a key resource that is essential reading for all teachers and researches who wish to extend their grasp of the place of geography in education Mark Jones is Senior Lecturer in Education at the University of the West of England Bristol UK David Lambert is Professor of Geography Education at UCL Institute of Education London UK

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whole school approach to embedding a sustainable model of teaching and learning that puts the learner at the heart of the system. It provides an entire framework for ensuring all students achieve above their expectations incorporating school vision, teacher professional development, assessment models, school culture, leadership and management, and core classroom practices. It takes what the current research suggests does and does not work and builds it into a practical approach that has been tried, tested, and proven to work. Each section incorporates the research, a model of how this can be embedded across a school, and then a training section that allows senior leaders in schools to teach the skill set to others to ensure it can be embedded and reviewed. Covering all aspects of teaching and learning, including curriculum design, teacher practices, assessment, and leadership, the book features a clear planning framework that is easy to implement, subject-based case studies to exemplify good practice, diagrams to clarify and consolidate information, training activities throughout each chapter, and is also available to download at www.routledge.com/9780415831178. Designed to be used as a training tool for both new and established teachers, this book is essential reading for senior leaders that want to equip their teachers with the skills and knowledge to create a school of outstanding classrooms.

Resources in Education, 1989 **Teacher's Skills Tests For Dummies** Colin Beveridge, Andrew Green, 2014-04-09

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1. Understanding the eBook Maths Paper1 2014 Grade 11 Final Exam
 - The Rise of Digital Reading Maths Paper1 2014 Grade 11 Final Exam
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper1 2014 Grade 11 Final Exam
 - 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 Maths Paper1 2014 Grade 11 Final Exam
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper1 2014 Grade 11 Final Exam
 - Personalized Recommendations
 - Maths Paper1 2014 Grade 11 Final Exam User Reviews and Ratings
 - Maths Paper1 2014 Grade 11 Final Exam and Bestseller Lists
5. Accessing Maths Paper1 2014 Grade 11 Final Exam Free and Paid eBooks

- Maths Paper1 2014 Grade 11 Final Exam Public Domain eBooks
 - Maths Paper1 2014 Grade 11 Final Exam eBook Subscription Services
 - Maths Paper1 2014 Grade 11 Final Exam Budget-Friendly Options
6. Navigating Maths Paper1 2014 Grade 11 Final Exam eBook Formats
- ePub, PDF, MOBI, and More
 - Maths Paper1 2014 Grade 11 Final Exam Compatibility with Devices
 - Maths Paper1 2014 Grade 11 Final Exam Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Maths Paper1 2014 Grade 11 Final Exam
 - Highlighting and Note-Taking Maths Paper1 2014 Grade 11 Final Exam
 - Interactive Elements Maths Paper1 2014 Grade 11 Final Exam
8. Staying Engaged with Maths Paper1 2014 Grade 11 Final Exam
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Paper1 2014 Grade 11 Final Exam
9. Balancing eBooks and Physical Books Maths Paper1 2014 Grade 11 Final Exam
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Paper1 2014 Grade 11 Final Exam
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Maths Paper1 2014 Grade 11 Final Exam
- Setting Reading Goals Maths Paper1 2014 Grade 11 Final Exam
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maths Paper1 2014 Grade 11 Final Exam
- Fact-Checking eBook Content of Maths Paper1 2014 Grade 11 Final Exam
 - 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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