

**Practice Paper (2023-24)**  
**Class – IX**  
**Mathematics**

**Time Allowed: 3 Hrs.**

**Maximum Marks: 80**

**General Instructions:**

1. This Question Paper has 5 Sections A, B, C, D, and E.
2. Section A has 20 Multiple Choice Questions (MCQs) carrying 1 mark each.
3. Section B has 5 Short Answer-I (SA-I) type questions carrying 2 marks each.
4. Section C has 6 Short Answer-II (SA-II) type questions carrying 3 marks each.
5. Section D has 4 Long Answer (LA) type questions carrying 5 marks each.
6. Section E has 3 sourced based/Case Based/passage based/integrated units of assessment (4 marks each) with sub-parts of the values of 1, 1 and 2 marks each respectively.
7. All Questions are compulsory. However, an internal choice in 2 Questions of 2 marks, 2 Questions of 3 marks and 2 Questions of 5 marks has been provided. An internal choice has been provided in the 2 marks questions of Section E.
8. Draw neat figures wherever required. Take  $\pi = 22/7$  wherever required if not Stated.

**SECTION A**

**Q 1-20 are multiple choice questions. Each question is of 1 mark.**

1. The product of any two irrational numbers is:
  - a. always an irrational number
  - b. always a rational number
  - c. always an integer
  - d. sometimes rational, sometimes irrational
2. The perimeter of a triangle is 60 cm. If its sides are in the ratio 1:3:2, then its smallest side is
  - a. 15cm
  - b. 5 cm
  - c. 10 cm
  - d. none of these
3. If (2, 0) is a solution of the linear equation  $2x + 3y = k$ , then the value of k is:
  - a. -4
  - b. 6
  - c. 5
  - d. 4

4. In figure, BC is a diameter of the circle and  $\angle BAO = 60^\circ$ . Then  $\angle ADC$  is equal to:



- a.  $30^\circ$
- b.  $45^\circ$
- c.  $60^\circ$
- d.  $120^\circ$

5. The base diameter of a cone is 10.5 cm, and its slant height is 10 cm. The area of a curved Surface is :
  - a. 150 sq.cm
  - b. 165 sq.cm
  - c. 177 sq.cm
  - d. 180 sq.cm

# Maths Past Papers M J 2014 Paper 4

**Marco Cascella**



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**Open Problems in Mathematics and Computational Science** Çetin Kaya Koç, 2015-03-25 This book presents interesting important unsolved problems in the mathematical and computational sciences The contributing authors are leading researchers in their fields and they explain outstanding challenges in their domains first by offering basic definitions explaining the context and summarizing related algorithms theorems and proofs and then by suggesting creative solutions The authors feel a strong motivation to excite deep research and discussion in the mathematical and computational sciences community and the book will be of value to postgraduate students and researchers in the areas of theoretical computer science discrete mathematics engineering and cryptology

**Sands of Time** Faysal Bibi, Brian Kraatz, Mark J. Beech, Andrew Hill, 2022-06-07 This monograph presents the results of over 10 years of paleontological and geological survey in the Baynunah Formation of the United Arab Emirates Exposed widely in western Abu Dhabi Emirate the Baynunah Formation and its fossils provide the only record of terrestrial environments and evolution in the Arabian Peninsula during the late Miocene epoch 12.5 Ma This volume describes new fossils collected since 2002 presented systematically by taxon and including mammals reptiles and invertebrates as well as fossil trackways The discoveries are framed within the results of new geological geochemical and geochronological analyses providing an updated and synthetic view of the age environments and biogeographic relationships of this important fossil assemblage

**Executive Function and Education** Mariëtte Huizinga, Dieter Baeyens, Jacob A. Burack, 2018-09-21 Executive function is an umbrella term for various cognitive processes that are central to goal directed behavior thoughts and emotions These processes are especially important in novel or demanding situations which require a rapid and flexible adjustment of behavior to the changing demands of the environment The development of executive function relies on the maturation of associated brain regions as well as on stimulation in the child's social contexts especially the home and school Over the past decade the term executive function has become a buzzword in the field of education as both researchers and educators underscore the importance of skills like goal setting planning and organizing in academic success Accordingly in initiating this Research Topic and eBook our goal was to provide a forum for state of the art theoretical and empirical work on this that both facilitates communication among researchers from diverse fields and provides a theoretically sound source of information for educators The contributors to this volume who hail from several different countries in Europe and North America have certainly accomplished this goal in their nuanced and cutting edge depictions of the complex links among various executive function components and educational success

**Philosophical Perceptions on Logic and Order** Horne, Jeremy, 2017-05-19 Strong reasoning skills are an important aspect to cultivate in life as they directly impact decision making on a daily basis By examining the different ways the world views logic and order new methods and techniques can be employed to help expand on this skill further in the future Philosophical Perceptions on Logic and Order is a pivotal scholarly resource that discusses the evolution of logical

reasoning and future applications for these types of processes Highlighting relevant topics including logic patterns deductive logic and inductive logic this publication is an ideal reference source for academicians students and researchers that would like to expand their understanding of how society currently employs the use of logical reasoning techniques     **Quantum Economics** David Orrell,2018-07-05 A decade after the financial crisis there is a growing consensus that economics has failed and needs to go back to the drawing board David Orrell argues that it has been trying to solve the wrong problem all along Economics sees itself as the science of scarcity Instead it should be the science of money which plays a surprisingly small role in mainstream theory And money is a substance that turns out to have a quantum nature of its own Just as physicists learn about matter by studying the exchange of particles at the subatomic level so economics should begin by analysing the nature of money based transactions Quantum Economics therefore starts with the meaning of the phrase how much or to use the Latin word quantum From quantum physics to the dualistic properties of money via the emerging areas of quantum finance and quantum cognition this profoundly important book reveals that quantum economics is to neoclassical economics what quantum physics is to classical physics a genuine turning point in our understanding     **Mothering from the Field** Bahiyyah M. Muhammad,Melanie-Angela Neuilly,2019-06-14 Mothering from the Field offers both a mosaic of perspectives from real women scientists experiences of conducting field research while raising children and an analytical framework to understand how we can redefine methodological and theoretical contributions based on mothers experiences in order to revolutionize how we conceptualize research     *Artificial Intelligence in STEM Education* Fan Ouyang,Pengcheng Jiao,Bruce M. McLaren,Amir H. Alavi,2022-12-29 Artificial intelligence AI opens new opportunities for STEM education in K 12 higher education and professional education contexts This book summarizes AI in education AIED with a particular focus on the research practice and technological paradigmatic shifts of AIED in recent years The 23 chapters in this edited collection track the paradigmatic shifts of AIED in STEM education discussing how and why the paradigms have shifted explaining how and in what ways AI techniques have ensured the shifts and envisioning what directions next generation AIED is heading in the new era As a whole the book illuminates the main paradigms of AI in STEM education summarizes the AI enhanced techniques and applications used to enable the paradigms and discusses AI enhanced teaching learning and design in STEM education It provides an adapted educational policy so that practitioners can better facilitate the application of AI in STEM education This book is a must read for researchers educators students designers and engineers who are interested in the opportunities and challenges of AI in STEM education     **Development Through The Lifespan** Laura E. Berk,2022-07-26 New and compelling topics rich examples strong multicultural and cross cultural focus coupled with Berk s signature storytelling style Development Through the Lifespan Seventh Edition is the most accessible and engaging text available to students today     **Child Development From Infancy to Adolescence** Laura E. Levine,Joyce Munsch,2023-05-12 Chronologically organized Child Development from Infancy to Adolescence Third Edition introduces

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