

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/passages 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°
- b. 45°
- c. 60°
- d. 120°

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

2013 June Maths Grade 9 Question Paper

**Maria-Gabriella Di Benedetto, Faouzi
Bader**



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Video Pedagogy Dilani S. P. Gedera, Arezou Zalipour, 2021-02-21 This book conceptualises the ways in which video has created a pedagogy for current learning and teaching practices disciplines and environments It brings together the concepts and practice of video as pedagogy by providing theoretical discussion and practical guidance and recommendations on the use of video in learning and teaching drawing on a wide range of case studies including nursing education business education architectural education engineering mathematics physical education science education and screen production Part I focuses on video students and learning and Part II on video teachers and practice The book covers various perspectives on the concept and use of video in learning and teaching developing students practical skills and knowledge using video for teaching culturally sensitive topics and cultural competency for feedback reflection training and professional development making and producing videos for educational purposes with discussion on techniques devices software and strategies **A**

Unique Geological Heritage: Meerschaum Alp Baran Erkul, 2022-12-27 A Unique Geological Heritage Meerschaum Alp Baran Erkul ISBN 978 605 06802 3 2 Kitab n t m geliri novasyon in E itim Vakf na ba lanmaktad r Elde edilen gelir ile entelekt el seviyesi y ksek gen lerin e itimi ve start up lar desteklenmektedir Ayr ca e itlik ve kapsay c l k g zetilmektedir

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Cognitive Communication and Cooperative HetNet Coexistence Maria-Gabriella Di Benedetto, Faouzi Bader, 2014-01-16 This book written by experts from universities and major industrial research laboratories is devoted to the very hot topic of cognitive radio and networking for cooperative coexistence of heterogeneous wireless networks Selected highly relevant advanced research is presented on spectrum sensing and progress toward the realization of accurate radio environment mapping biomimetic learning for self organizing networks security threats with a special focus on primary user emulation attack and cognition as a tool for green next generation networks The research activities covered include work undertaken within the framework of the European COST Action IC0902 which is geared towards the definition of a European platform for cognitive radio and networks Communications engineers R D engineers researchers and students will all benefit from this complete reference on recent advances in wireless communications and the design and implementation of cognitive radio systems and networks **Indian National Bibliography** B. S. Kesavan, 2016-12 *The Indian National Bibliography* B. S. Kesavan, 2016-07

Applications of Quantum Mechanical Techniques to Areas Outside of Quantum Mechanics. 2nd Edition Emmanuel Haven, Andrei Khrennikov, 2019-11-14 This book deals with applications of quantum mechanical techniques to areas outside of quantum mechanics so called quantum like modeling Research in this area has grown over the last 15 years But even already more than 50 years ago the interaction between Physics Nobel laureate Pauli and the psychologist Carl Jung in the 1950 s on seeking to find analogous uses of the complementarity principle from quantum mechanics in

psychology needs noting This book does NOT want to advance that society is quantum mechanical The macroscopic world is manifestly not quantum mechanical But this rules not out that one can use concepts and the mathematical apparatus from quantum physics in a macroscopic environment A mainstay ingredient of quantum mechanics is quantum probability and this tool has been proven to be useful in the mathematical modelling of decision making In the most basic experiment of quantum physics the double slit experiment it is known from the works of A Khrennikov that the law of total probability is violated It is now well documented that several decision making paradoxes in psychology and economics such as the Ellsberg paradox do exhibit this violation of the law of total probability When data is collected with experiments which test non rational decision making behaviour one can observe that such data often exhibits a complex non commutative structure which may be even more complex than if one considers the structure allied to the basic two slit experiment The community exploring quantum like models has tried to address how quantum probability can help in better explaining those paradoxes Research has now been published in very high standing journals on resolving some of the paradoxes with the mathematics of quantum physics The aim of this book is to collect the contributions of world s leading experts in quantum like modeling in decision making psychology cognition economics and finance

Cracking the code UNESCO,2017-09-04 This report aims to crack the code by deciphering the factors that hinder and facilitate girls and women s participation achievement and continuation in science technology engineering and mathematics STEM education and in particular what the education sector can do to promote girls and women s interest in and engagement with STEM education and ultimately STEM careers *The Times Index* ,2013-06 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Time educational supplement Scotland and the Times higher education supplement

Journal of Developmental Education ,2017

Interrogating Whiteness and Relinquishing Power Nicole M. Joseph,Chayla Haynes,Floyd Cobb,2016

Interrogating Whiteness and Relinquishing Power White Faculty s Commitment to Racial Consciousness in STEM Classrooms is a collection of narratives that will transform the teaching of any faculty member who teaches in the STEM system The book links issues of inclusion to teacher excellence at all grade levels by illuminating the critical influence that racial consciousness has on the behaviors of White faculty in the classroom It functions as an analytical tool scaffolding exemplary examples to inspire readers to engage in the complex and difficult work of assessing their own racial consciousness and teacher effectiveness White pre service teachers in STEM education rarely see the importance of the link between race and the teaching and learning of mathematics in part because the White faculty who are teaching these subjects rarely engage in the study of racial projects in STEM From this perspective the authors of this book contend that the classroom is a racialized environment that if not addressed can reproduce racial structures and hierarchies in cyclical ways *The Northwestern Miller* ,1888 *Collectanea Mathematica* ,2013 *Canadian Journal of Physics* ,2015 *Paperbound Books in Print* ,1992 *Review* ,2014 *Journal of the American Statistical Association* American Statistical Association,1948 A scientific and

educational journal not only for professional statisticians but also for economists business executives research directors government officials university professors and others who are seriously interested in the application of statistical methods to practical problems in the development of more useful methods and in the improvement of basic statistical data **Canadian Journal of Forest Research** ,2014 Australian Education Index ,1980 **Electrical & Electronics Abstracts** ,1997

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