

SUBJECT: MATHEMATICS  
CLASS : IX

MAX. MARKS : 80  
DURATION : 3 HRS

**General Instruction:**

- (i) All questions are compulsory.
- (ii) This question paper contains 30 questions divided into four Sections A, B, C and D.
- (iii) Section A comprises of 6 questions of 1 mark each. Section B comprises of 6 questions of 2 marks each. Section C comprises of 10 questions of 3 marks each and Section D comprises of 8 questions of 4 marks each.
- (iv) There is no overall choice. However, an internal choice has been provided in two questions in 1 mark each, two questions in 2 marks each, four questions of 3 marks each and three questions of 4 marks each. You have to attempt only one of the alternatives in all such questions.
- (v) Use of Calculators is not permitted

**SECTION – A**

Questions 1 to 6 carry 1 mark each.

1. Find the total surface area of a hemisphere of radius 10 cm. (Use  $\pi = 3.14$ )  
OR  
Find the height of cone, if its slant height is 34 cm and base diameter is 32 cm.
2. If the point (3, 4) lies on the graph of the equation  $3y = ax + 7$ , find the value of a.

3. Simplify:  $\frac{\sqrt{32} + \sqrt{48}}{\sqrt{8} + \sqrt{12}}$

OR

Find the value of  $\sqrt{3^{-2}}$ .

4. In a bag, there are 100 bulbs out of which 30 are defective ones. A bulb is taken out of the bag at random. Find the probability of the selected bulb to be a good one.
5. If its perimeter of an equilateral triangle is 180 cm, what will be its area?
6. In the below figure,  $\angle ABC = 69^\circ$ ,  $\angle ACB = 31^\circ$ , find  $\angle BDC$ .

**SECTION – B**

Questions 6 to 12 carry 2 marks each.

7. A river 3 m deep and 40 m wide is flowing at the rate of 2 km per hour. How much water will fall into the sea in a minute?

# Jim King Maths Paper 2014

**Ryan B. Hayward, Bjarne Toft**



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Leader, 2015-05-05 For much of his adult life Saul Bellow was the most acclaimed novelist in America the winner of among other awards the Nobel Prize in Literature three National Book Awards and the Pulitzer Prize The Life of Saul Bellow by the literary scholar and biographer Zachary Leader marks the centenary of Bellow s birth as well as the tenth anniversary of his death It draws on unprecedented access to Bellow s papers including much previously restricted material as well as interviews with more than 150 of the novelist s relatives close friends colleagues and lovers a number of whom have never spoken to researchers before Through detailed exploration of Bellow s writings and the private history that informed them Leader chronicles a singular life in letters offering original and nuanced accounts not only of the novelist s development and rise to eminence but of his many identities as writer polemicist husband father Chicagoan Jew American The biography will be published in two volumes The first volume To Fame and Fortune 1915 1964 traces Bellow s Russian roots his birth and

early childhood in Quebec his years in Chicago his travels in Mexico Europe and Israel the first three of his five marriages and the novels from Dangling Man and The Adventures of Augie March to the best selling Herzog New light is shed on Bellow s fellow writers including Ralph Ellison John Berryman Lionel Trilling and Philip Roth and on his turbulent and influential life away from the desk which was as full of incident as his fiction Bellow emerges as a compelling character and Leader s powerful accounts of his writings published and unpublished forward the case for his being as the critic James Wood puts it the greatest of American prose stylists in the twentieth century

Samuel Pepys, Isaac Newton, James Hodgson, and the Beginnings of Secondary School Mathematics Nerida F. Ellerton, M. A. (Ken) Clements, 2017-03-02 This book tells one of the greatest stories in the history of school mathematics Two of the names in the title Samuel Pepys and Isaac Newton need no introduction and this book draws attention to their special contributions to the history of school mathematics According to Ellerton and Clements during the last quarter of the seventeenth century Pepys and Newton were key players in defining what school mathematics beyond arithmetic and elementary geometry might look like The scene at which most of the action occurred was Christ s Hospital which was a school ostensibly for the poor in central London The Royal Mathematical School RMS was established at Christ s Hospital in 1673 It was the less well known James Hodgson a fine mathematician and RMS master between 1709 and 1755 who demonstrated that topics such as logarithms plane and spherical trigonometry and the application of these to navigation might systematically and successfully be taught to 12 to 16 year old school children From a wider history of school education perspective this book tells how the world s first secondary school mathematics program was created and how slowly but surely what was being achieved at RMS began to influence school mathematics in other parts of Great Britain Europe and America The book has been written from the perspective of the history of school mathematics Ellerton and Clements s analyses of pertinent literature and of archival data and their interpretations of those analyses have led them to conclude that RMS was the first major school in the world to teach mathematics beyond arithmetic on a systematic basis to students aged between 12 and 16 Throughout the book Ellerton and Clements examine issues through the lens of a long time theoretical perspective From a historiographical perspective this book emphasizes how the history of RMS can be portrayed in very different ways depending on the vantage point from which the history is written The authors write from the vantage point of international developments in school mathematics education and therefore their history of RMS differs from all other histories of RMS most of which were written from the perspective of the history of Christ s Hospital

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Books in Print Supplement ,2002      *Critical Issues in Democratic Schooling* Kenneth Teitelbaum,2020-04-28 Focusing on a wide range of critical issues this book provides a comprehensive analysis of the linkage of different educational ideas policies and practices to a commitment for democratic schooling Informed by significant interdisciplinary research as well as by his own extensive professional experiences as a teacher professor department chair and dean Teitelbaum examines contemporary concerns related to three broad areas 1 teaching and teacher education 2 curriculum studies and 3 multiculturalism and social justice His approach is to integrate the current and the historical the practical and the theoretical the technical and the socio political and the personal and the structural With this volume Teitelbaum considers how schools should be organized and funded what they should teach and to whom the role that teachers students and parents should play in school life and the need and prospects for schools and teacher education programs that foster meaningful learning critical reflection and social justice

IMU, ICM, Medals, Prizes, and Laureates Ravi P. Agarwal,2025-10-19 The book begins with the formal establishment of the International Mathematical Union IMU and its purpose of promoting international cooperation in mathematics by supporting and assisting the international Congress of Mathematicians ICM every four years The book presents the most important features of each ICM from 1897 to 2022 including the history of various medals and awards particularly the Fields Medal which is regarded as one of the highest honors a mathematician can receive and has been described as the Nobel Prize of mathematics For each Laureate the book provides their family background a short description of the work that led to the award a history of academic jobs research conducted after receiving the award and a list of further honors and awards This book will stimulate all mathematicians especially students who think that mathematics is less rewarding compared to other disciplines

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