

510 | ICSE Last 10 Years Solved Papers

(c) Given : Principal = ₹ 15,000

We know that

$$A = P \left( 1 + \frac{r}{100} \right)^n$$

$$\begin{aligned} \text{Amount after 1<sup>st</sup> year} &= 15,000 \left( 1 + \frac{8}{100} \right) \\ &= ₹ 16,200 \end{aligned}$$

$$\text{Principal after repayment} = 16,200 - 6,200 = ₹ 10,000$$

$$\begin{aligned} \text{Amount outstanding at the end of second year} \\ &= 10,000 \left( 1 + \frac{10}{100} \right) \\ &= ₹ 11,000 \end{aligned}$$

Question 2.

Ans.

(a) From a pack of 52 playing cards all cards whose numbers are multiples of 3 are removed. A card is now drawn at random.

What is the probability that the card drawn is :

(i) a face card (King, Jack or Queen)

(ii) an even numbered red card ?

(b) Solve the following equation :

[3]

$x - \frac{18}{x} = 6$ . Give your answer correct to two significant figures.

[3]

(c) In the given figure O is the centre of the circle. Tangents at A and B meet at C. If  $\angle AOC = 30^\circ$ , find

(i)  $\angle BCO$

(ii)  $\angle AOB$

(iii)  $\angle APB$

[4]



Solution :

(a) Number of cards which are multiples of 3 = 12

Cards left in the pack = 40

(i) Number of face cards = 12

$$P(\text{face card}) = \frac{12}{40} = \frac{3}{10}$$

Ans.

(ii) Even numbered red cards = 10

$$P(\text{even number red card}) = \frac{10}{40} = \frac{1}{4}$$

Ans.

(b) Let  $x^2 - 6x - 18 = 0$   
Compare with equation  $ax^2 + bx + c = 0$ , we get  
 $a = 1, b = -6, c = -18$

Now,

$$\begin{aligned} x &= \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \\ &= \frac{6 \pm \sqrt{36 + 72}}{2} \end{aligned}$$

# Maths June 2014 Exam Paper

**Kathleen Armour**



## **Maths June 2014 Exam Paper:**

*PWN the SAT: Math Guide* Mike McClenathan, 2016-02-17 PWN is back and better than ever The PWN the SAT Math Guide was created to help ambitious highly motivated kids maximize their SAT math scores Do you crave a higher score Are you willing to do a little hard work to achieve it Good I knew I liked you Read this book from beginning to end with a pencil in hand and a calculator and an Official SAT Study Guide by your side When you re done you ll be able to approach the SAT with confidence very few questions will surprise you and even fewer will be able to withstand your withering attacks Stand tall intrepid student Destiny awaits Updated for the New SAT This new edition of the Math Guide has been updated rather painstakingly to reflect the realities of the new SAT coming March 2016 This book was not rushed to market to take advantage of interest in the new exam I took my time and hopefully I got it right Chapters are broken into five major sections Techniques Heart of Algebra Passport to Advanced Math Problem Solving and Data Analysis and Additional Topics in Math Each chapter concludes with a reference list of similar questions from official practice tests Practice questions are designated as either Calculator or No calculator Students will be forbidden from using their calculators for one whole section of the new SAT Emphasis is placed on nimbleness the ability to approach problems in multiple ways to find the one that works best Calculator solutions and shortcuts are provided where appropriate Join me online Readers of this book are encouraged to register as Math Guide Owners at the PWN the SAT website There will be video solutions and other bonus content there Signing up there will also give me a way to get in touch with you if I make book updates See details at <http://mathguide.pwnthesat.com>

**Information Technology and Applied Mathematics** Peeyush Chandra, Debasis Giri, Fagen Li, Samarjit Kar, Dipak Kumar Jana, 2018-05-08 This book discusses recent advances and contemporary research in the field of cryptography security mathematics and statistics and their applications in computing and information technology Mainly focusing on mathematics and applications of mathematics in computer science and information technology it includes contributions from eminent international scientists researchers and scholars The book helps researchers update their knowledge of cryptography security algebra frame theory optimizations stochastic processes compressive sensing functional analysis and complex variables

**The Mathematics Education for the Future Project. Proceedings of the 13th International Conference Mathematics Education in a Connected World** Alan Rogerson, 2015-07-01 This volume contains the papers presented at the International Conference on Mathematics Education in a Connected World held from September 16 21 2015 in Catania Italy The Conference was organized by The Mathematics Education for the Future Project an international educational project founded in 1986

*Information and Software Technologies* Giedre Dregvaite, Robertas Damasevicius, 2016-09-29 This book constitutes the refereed proceedings of the 22nd International Conference on Information and Software Technologies ICIST 2016 held in Druskininkai Lithuania in October 2016 The 61 papers presented were carefully reviewed and selected from 158 submissions The papers are organized in topical sections on information

systems business intelligence for information and software systems software engineering information technology applications

*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

#### **Equity Derivatives and Hybrids** Oliver

Brockhaus,2016-04-29 Since the development of the Black Scholes model research on equity derivatives has evolved rapidly to the point where it is now difficult to cut through the myriad of literature to find relevant material Written by a quant with many years of experience in the field this book provides an up to date account of equity and equity hybrid equity rates equity credit equity foreign exchange derivatives modeling from a practitioner s perspective The content reflects the requirements of practitioners in financial institutions Quants will find a survey of state of the art models and guidance on how to efficiently implement them with regards to market data representation calibration and sensitivity computation Traders and structurers will learn about structured products selection of the most appropriate models as well as efficient hedging methods while risk managers will better understand market credit and model risk and find valuable information on advanced correlation concepts Equity Derivatives and Hybrids provides exhaustive coverage of both market standard and new approaches including Empirical properties of stock returns including autocorrelation and jumps Dividend discount models Non Markovian and discrete time volatility processes Correlation skew modeling via copula as well as local and stochastic correlation factors Hybrid modeling covering local and stochastic processes for interest rate hazard rate and volatility as well as closed form solutions Credit debt and funding valuation adjustment CVA DVA FVA Monte Carlo techniques for sensitivities including algorithmic differentiation path recycling as well as multilevel Written in a highly accessible manner with examples applications research and ideas throughout this book provides a valuable resource for quantitative minded practitioners and researchers

*Validating Technological Innovation* David Coniam,Peter Falvey,2016-04-02 This book discusses Hong Kong s use of onscreen marking OSM in public examinations Given that Hong Kong leads the way in OSM innovation this book has

arisen from a recognised need to provide a comprehensive coherent account of the findings of various separate but linked validation studies of onscreen public examinations in Hong Kong The authors discuss their experience of the validation process demonstrating how high stakes innovation should be fully validated by a series of research studies in order to satisfy key stakeholders **Tropical Seaweed Farming Trends, Problems and Opportunities** Anicia Q. Hurtado, Alan T.

Critchley, Iain C. Neish, 2017-10-17 This book collates the latest information on Kappaphycus and Eucheuma seaweeds The edited volume provides an important companion to anyone studying or working with what is the world's largest cultivated marine plant biomass The contributing authors have excelled in providing information on production and present and future uses of these carrageenan bearing seaweeds Important elements of taxonomy distribution and methods of cultivation and processing are presented to the reader in an accessible and easily understood format The book provides a number of valuable opinions on value addition and MUZE technologies which highlight value chains associated with these important red algae

**Journal for Research in Mathematics Education**, 2015 **The Parliamentary Debates (Hansard)**. Great Britain. Parliament. House of Lords, 2014 Foreign Service Journal, 2014 Rivista di matematica della Università di Parma, 2015

**Indian Books**, 1978 *Indian National Bibliography* B. S. Kesavan, 2016-12 *The Public and Preparatory Schools Year Book*, 1968 Canadian Journal of Physics, 2016 *The Indian National Bibliography* B. S. Kesavan, 2016-07 *The Economist*, 1925 The Harvard Education Letter, 2003 **Oil, Paint and Drug Reporter and New York Druggists' Price Current**, 1921

Vols include the proceedings some summarized some official stenographic reports of the National Wholesale Druggists Association called 18 1882 Western Wholesale Druggists Association and of other similar organizations

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