

Time Allowed : 2½ hours

Max. Marks : 80

General Instructions :

Attempt all questions from Section A and any four questions from Section B.  
All working, including rough work, must be clearly shown, and must be done on the same sheet as the rest of the answer.

Omission of essential working will result in loss of marks.

The intended marks for questions or parts of questions are given in brackets [ ].  
Mathematical tables are provided.

### SECTION - A (40 Marks)

(Attempt all questions from this Section)

Question 1 : Choose the correct answers to the questions from the given options:

[15]

- (i) A consumer bought a T.V. from a dealer at a discount of 20% on the marked price of ₹40,000. If the rate of GST is 18%, then the tax paid by the consumer is :  
(a) ₹5760 (b) ₹2880 (c) nil (d) ₹7200
- (ii) The discriminant of  $2x^2 - 5x + 1 = 0$  is :  
(a) 25 (b) 33 (c) 17 (d) 15
- (iii) If  $(x - 2)$  is a factor of  $x^2 + ax + 10$ , then the value of  $a$  is :  
(a) 7 (b) -7 (c) 4 (d) -5
- (iv) The order of the matrix  $\begin{bmatrix} 7 \\ 5 \\ -6 \end{bmatrix}$  is :  
(a)  $1 \times 3$  (b)  $3 \times 1$  (c)  $3 \times 0$  (d)  $1 \times 1$
- (v) The  $n$ th term of the AP 15, 10, 5, ... is :  
(a)  $5n - 20$  (b)  $20 - 5n$  (c)  $20 + 5n$  (d)  $10 + 5n$
- (vi) The reflection of the point  $P(1, -2)$  in the line  $y = -1$  is :  
(a)  $(-3, -2)$  (b)  $(1, -4)$  (c)  $(1, 4)$  (d)  $(1, 0)$
- (vii) In the figure,  $AB \parallel PQ$ ,  $CQ = 6$  cm,  $CB = 14$  cm and  $AB = 7$  cm. The length of  $PQ$  is :  
(a) 3 cm  
(b) 3.5 cm  
(c) 4 cm  
(d) 4.2 cm
- (viii) If  $P(A)$  and  $P(\text{not } A)$  are complementary events and  $P(A) = 0.15$ , then  $P(\text{not } A) = ?$   
(a) 0.35 (b) 0.85 (c) 0.3 (d) cannot be determined
- (ix) If  $25 - 4x \leq 16$ , then, the smallest value of  $x$ , when  $x \in \mathbb{R}$  is :  
(a) 2.25 (b) 2.5 (c) 3.5 (d) 3
- (x) The total surface area of the adjoining figure is:  
(a)  $880 \text{ cm}^2$  (b)  $110 \text{ cm}^2$   
(c)  $440 \text{ cm}^2$  (d)  $210 \text{ cm}^2$



# 2013 June Maths Papers Grade 10

**Alok Singh, Kiran Solanki, Michele V.  
Manuel, Neale R. Neelameggham**

## 2013 June Maths Papers Grade 10:

*Research for Educational Change* Jill Adler, Anna Sfard, 2016-06-17 *Research for Educational Change* presents ways in which educational research can fulfil its commitments to educational practice Focussing its discussion within the context of mathematics education it argues that while research generated insights can have beneficial effects on learning and teaching the question of how these effects are to be generated and sustained is far from evident The question of how to turn research into educational improvement is discussed here in the context of learning and teaching hindered by poverty and social injustice In the first part of the book four teams of researchers use different methodologies while analysing the same corpus of data collected in a South African mathematics classroom In the second part each of these teams makes a specific proposal about what can be done and how so that its research generated insights have a tangible beneficial impact on what is happening in mathematical classrooms Combining two discourses that of researchers speaking to one another and that of researchers communicating their insights to those responsible for educational practice the book deals with the perennial question of communication between those who study educational processes and those who are directly responsible for teacher education educational research and classroom practices This book will be key reading for postgraduates researchers and academics in education and particularly in the areas of mathematics education education research teacher education and classroom practice It will also appeal to teacher educators practitioners and undergraduate students interested in educational research

**The Report: Indonesia 2014** Oxford Business Group, 2014-05-21 On the cusp of 2014 national elections and the 2015 integration of the ASEAN Economic Community Indonesia is poised to continue its rapid economic expansion While the country's natural resources are still plentiful by channelling foreign direct investment into the right areas the government is ensuring that true potential in terms of value and manufacturing is achieved By inviting targeted investment and adapting existing regulatory frameworks the government has taken significant steps to facilitate foreign investment and the development of value added industries Indonesia is a country renowned for its abundance of natural resources which include oil gas coal nickel tin copper gold and silver While slightly down on the previous year the country's total oil production for 2012 stood at 861 000 barrels per day accounting for approximately 1.2% of the world's oil production Indonesia remains the world's largest exporter of thermal coal exporting a total of 304m tonnes in 2012 to countries such as Japan South Korea China and India The country continues to be the dominant nation in South east Asia politically and economically and its participation within ASEAN in particular will likely determine the shape of regional integration with the introduction of the ASEAN Economic Community AEC in 2015 looming as the bloc's next major milestone

**Magnesium Technology 2016** Alok Singh, Kiran Solanki, Michele V. Manuel, Neale R. Neelameggham, 2016-02-09 The Magnesium Technology Symposium the event on which this collection is based is one of the largest yearly gatherings of magnesium specialists in the world Papers represent all aspects of the field ranging from primary production to applications to recycling

Moreover papers explore everything from basic research findings to industrialization Magnesium Technology 2016 covers a broad spectrum of current topics including alloys and their properties cast products and processing wrought products and processing forming joining and machining corrosion and surface finishing ecology and structural applications In addition there is coverage of new and emerging applications The collection includes more than 50 papers

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*,1891 U.S. Timber Production, Trade, Consumption, and Price Statistics ,1965 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 *Minerals Yearbook 2012* Department of Interior,2016-12-15 This volume covering metals and minerals contains chapters on approximately 90 commodities In addition this volume has chapters on mining and quarrying trends and on statistical surveying methods used by Minerals Information plus a statistical summary Staff and contractors working for mining companies companies that use export import certain minerals and metals geologists and members of the general public interested in the properties and federal rules governing the definitions and extraction use of minerals and metals Additionally economists and commodity investors or financial planners may be interested in this volume Related products Minerals and Metals collection can be found here <https://bookstore.gpo.gov/catalog/science/technology/minerals/metals> Mining Drilling resources collection is available here <https://bookstore.gpo.gov/catalog/science/technology/mining/drilling> Other printed volumes in the Mineral Yearbook series can be found here [https://bookstore.gpo.gov/catalog/science/technology/minerals/metals/minerals\\_yearbook](https://bookstore.gpo.gov/catalog/science/technology/minerals/metals/minerals_yearbook)

**Parliamentary Papers** Queensland. Parliament. Legislative Assembly,1973 *The Commercial & Financial Chronicle and Hunt's Merchants' Magazine ,1881 Assessing Academic Literacy in a Multilingual Society* Albert Weideman,John Read,Theo du Plessis,2020-11-02 South African universities face major challenges in meeting the needs of their students in the area of academic language and literacy The dominant medium of instruction in the universities is English and to a much lesser extent Afrikaans but only a minority of the national population are native speakers of these languages Nine other languages can be media of instruction in schools which makes the transition to tertiary education difficult enough in itself for students from these schools The focus of this book is on procedures for assessing the academic language and literacy levels and needs of students not in order to exclude students from higher education but rather to identify those who would benefit from further development of their ability in order to undertake their degree studies successfully The volume also aims to bring the innovative solutions designed by South African educators to a wider international audience [The Commercial & Financial Chronicle ... ,1882](#) [Sessional Papers](#) Ontario. Legislative Assembly,1896 **The Northwestern Miller ,1890 St. Louis Daily Market Reporter and Merchants Exchange Price Current ,1900 Commercial and Financial Chronicle Bankers Gazette, Commercial Times, Railway Monitor and Insurance Journal ,1883 [Mining and Scientific Press ,1893](#) Pacific Rural Press ,1882 Farmers' Review ,1886 Barron's National Business and**

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