

Time Allowed : 2½ hours

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)  $210 \text{ cm}^2$



# Advanced Programme Mathematics Past Papers Grade 10

**G Orfield**



## **Advanced Programme Mathematics Past Papers Grade 10:**

Resources in Education ,1990      Choosing Your A-Levels and Other Post-16 Options Gary Woodward,2008-09-15 This book gives an overview of the different courses and qualifications available to young people post GCSE It profiles over 40 of the most popular A level AS level and new diploma subject areas listing everything students need to know to make an informed choice The only book on the market to link post 16 options to future career aspirations it contains independent advice providing all the options so that students can choose which route is best for them without outside influence pressure Easily navigable it is divided into sections by subject area and listed alphabetically making it easy for students to browse Author Gary Woodward is a qualified careers consultant and has significant experience of advising young people about education and career options as well as job hunting      The revolution in school mathematics; a challenge for administrators and teachers, a report Philadelphia Regional Orientation Conference in Mathematics (etc., 1960),1961      *Proceedings of the Fourth International Congress on Mathematical Education* M. Zweng,Green,Kilpatrick,Pollack,Suydam,2012-12-06 Henry O Pollak Chairman of the International Program Committee Bell Laboratories Murray Hill New Jersey USA The Fourth International Congress on Mathematics Education was held in Berkeley California USA August 10 16 1980 Previous Congresses were held in Lyons in 1969 Exeter in 1972 and Karlsruhe in 1976 Attendance at Berkeley was about 1800 full and 500 associate members from about 90 countries at least half of these come from outside of North America About 450 persons participated in the program either as speakers or as presiders approximately 40 percent of these came from the U S or Canada There were four plenary addresses they were delivered by Hans Freudenthal on major problems of mathematics education Hermina Sinclair on the relationship between the learning of language and of mathematics Seymour Papert on the computer as carrier of mathematical culture and Hua Loo Keng on popularising and applying mathematical methods Gerge Polya was the honorary president of the Congress illness prevented his planned attendance but he sent a brief presentation entitled Mathematics Improves the Mind There was a full program of speakers panelists debates miniconferences and meetings of working and study groups In addition 18 major projects from around the world were invited to make presentations and various groups representing special areas of concern had the opportunity to meet and to plan their future activities      *Research in Education* ,1972      The ETS Test Collection Catalog Educational Testing Service. Test Collection,1993 The major source of information on the availability of standardized tests Wilson Library BulletinCovers commercially available standardized tests and hard to locate research instruments      The University of Texas Record ,1913      University Record University of Texas,1913      **The University of Texas Record** University of Texas,1912 Vol 6 no 4 The Prather memorial      The Morning Star and Free Baptist ,1898      Pulp and Paper Magazine of Canada ,1927      Pitman's Journal of Commercial Education ,1903      **Parliamentary Papers** Great Britain. Parliament. House of Commons,1918      *Teachers World* ,1895      **The National Engineer** ,1929 Vols 34 contain official N A P E directory

**Publishers' Circular and General Record of British and Foreign Literature, and Booksellers' Record** ,1877  
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## **Table of Contents Advanced Programme Mathematics Past Papers Grade 10**

1. Understanding the eBook Advanced Programme Mathematics Past Papers Grade 10
  - The Rise of Digital Reading Advanced Programme Mathematics Past Papers Grade 10
  - Advantages of eBooks Over Traditional Books
2. Identifying Advanced Programme Mathematics Past Papers Grade 10
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Advanced Programme Mathematics Past Papers Grade 10
  - User-Friendly Interface
4. Exploring eBook Recommendations from Advanced Programme Mathematics Past Papers Grade 10
  - Personalized Recommendations
  - Advanced Programme Mathematics Past Papers Grade 10 User Reviews and Ratings
  - Advanced Programme Mathematics Past Papers Grade 10 and Bestseller Lists
5. Accessing Advanced Programme Mathematics Past Papers Grade 10 Free and Paid eBooks
  - Advanced Programme Mathematics Past Papers Grade 10 Public Domain eBooks
  - Advanced Programme Mathematics Past Papers Grade 10 eBook Subscription Services
  - Advanced Programme Mathematics Past Papers Grade 10 Budget-Friendly Options
6. Navigating Advanced Programme Mathematics Past Papers Grade 10 eBook Formats

- ePub, PDF, MOBI, and More
  - Advanced Programme Mathematics Past Papers Grade 10 Compatibility with Devices
  - Advanced Programme Mathematics Past Papers Grade 10 Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Advanced Programme Mathematics Past Papers Grade 10
    - Highlighting and Note-Taking Advanced Programme Mathematics Past Papers Grade 10
    - Interactive Elements Advanced Programme Mathematics Past Papers Grade 10
  8. Staying Engaged with Advanced Programme Mathematics Past Papers Grade 10
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Advanced Programme Mathematics Past Papers Grade 10
  9. Balancing eBooks and Physical Books Advanced Programme Mathematics Past Papers Grade 10
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Advanced Programme Mathematics Past Papers Grade 10
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Advanced Programme Mathematics Past Papers Grade 10
    - Setting Reading Goals Advanced Programme Mathematics Past Papers Grade 10
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Advanced Programme Mathematics Past Papers Grade 10
    - Fact-Checking eBook Content of Advanced Programme Mathematics Past Papers Grade 10
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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determine the strain of S. Case Study- The Case of the Newborn Nightmare 1.what challenges Dr Maddison is facing? 2. What information does he have so far about the infection? 3. What are some possible causes of skin infections? List ... Chapter 21 Flashcards (review the NEWBORN NIGHTMARE case study). Exfoliative toxin from Staph. aureus. Fever, red raised blistering skin, peeling skin. Culture baby's nose and ... CASE TEACHING NOTES for "The Case of the Newborn ... by A Wade — CASE TEACHING NOTES for "The Case of the Newborn Nightmare" by Andrea Wade. Page 3. ANSWER KEY. Answers to the questions posed in the case ... Solved Newborn nightmare by Andrea Wade, what are the Oct 5, 2019 — Newborn nightmare is a case study done by Dr Andrea wade. Case study focuses on development of mysterious rashes among newborns. The Case of the Newborn Nightmare Oct 10, 2001 — Three newborns left in the care of "Dr. Mark Maddison" have developed a mysterious rash. Under increasing pressure from hospital ... Lab Practical Flashcards In regard to the "Case of the Newborn Nightmare," what was the name of the bacteria that caused the whole neighborhood to be sick? What is the common source ...