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)

[15]

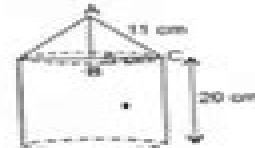**Question 1 :** Choose the correct answers to the questions from the given options:

(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) 23   (b) 33   (c) 17   (d) 15

(iii) If $(x - 2)$ is a factor of $x^2 + mx + 10$, then the value of m is :
(a) 7   (b) -7   (c) 4   (d) -5

(iv) The order of the matrix $\begin{bmatrix} 7 \\ 5 \\ -6 \end{bmatrix}$ is :
(a) 1×3 (b) 3×1 (c) 3×0 (d) 1×1

(v) The nth 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 ∥ 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(not A) are complementary events and P(A) = 0.15, then P(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 $x \in R$ is :
(a) 2.25   (b) 2.5   (c) 3.5   (d) 3

(x) The total surface area of the adjoining figure is:
(a) 880 cm²   (b) 110 cm²
(c) 440 cm²   (d) 210 cm²

Advanced Programme Mathematics Past Papers Grade 10

Victor M. Corman

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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   **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 Gearge Polya was the honorary president of the Congress illness prevented his planned attendence 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   **The revolution in school mathematics; a challenge for administrators and teachers, a report** Philadelphia Regional Orientation Conference in Mathematics (etc., 1960),1961   **Comparison of Native-English and Native-Korean Speaking University Students' Discoures [i.e. Discourses] on Infinity and Limit** Dong-Joong Kim,2009   *The Australian Mathematics Teacher* ,1985   Research in Education ,1972   The ETS Test Collection Catalog Educational Testing Service. Test Collection,1993 The major source of infornmation on the availability of standardized tests Wilson Library BulletinCovers commercially available standardized tests and hard to locate research instruments   **Michigan School Moderator** ,1898   *Independent Schools* ,2002   **Journal of Education and School World** ,1894   Report ... New South Wales. Department of Education,1888   The Nation ,1887   The United States Army and Navy Journal and Gazette

of the Regular and Volunteer Forces ,1881   **Information Magazine** ,2007   Journal of Education ,1894   **Publishers' circular and booksellers' record** ,1876   **The Publishers' Circular and Booksellers' Record of British and Foreign Literature** ,1891   Stanford Bulletin ,2006   Educational Times ,1896

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