

Mathematics

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Time: 3 hrs.

Full Marks: 100

Pass Marks: 35 (For partial students only)

Attempt all questions.

Group 'A'

5 × 3 × 2 = 30

1. a. Find the truth value of the biconditional statement of p and q where p represents '2 is an even number' and q represents '4 is an even number'.
b. If $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = 2x - 3$, find f^{-1}
c. Test the even or odd nature and symmetricity of the function $y = 8x^2$
2. a. Express $\tan^{-1}x$ in terms of inverse of sin function.
b. Prove by mathematical induction: $1 + 3 + 5 + \dots + (2n - 1) = n^2$
c. Find the adjoint of the matrix $\begin{pmatrix} 2 & 5 \\ 3 & -7 \end{pmatrix}$
3. a. Using Cramer's rule, solve: $3x + 2y + 9 = 0$, $2x - 3y + 6 = 0$
b. Express $\sqrt{3} + i$ in polar form.
c. If one root of the equation $ax^2 + bx + c = 0$ be twice the other, show that $2b^2 = 9ac$
4. a. Find the equation of the straight line that has y -intercept '2' and is parallel to $4x - 8y + 3 = 0$
b. Find the equation of the circle which passes through origin and makes equal intercepts on both axes.
c. Evaluate: $\lim_{x \rightarrow 0} \frac{1 - \cos nx}{1 - \cos mx}$

Contd...

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RD Boyd



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Proceedings of the International Seminar of Sport and Exercise Science (ISSES 2024) Anindya Mar'atus Sholikhah, Sri Wicahyani, I Dewa Made Aryananda Wijaya Kusuma, Chanika Pinyorospatham, Eef Hogervorst, 2025-01-03 This book is an open access Why you should Join 5th ISSES Connect with professionals and experts in the field of sport science and exercise Build valuable relationships with like minded individuals including researchers practitioners and enthusiasts Identify potential collaborators for future projects or research initiatives Explore opportunities for interdisciplinary collaborations that can contribute to the advancement of sport science and exercise Gain insights from renowned speakers and experts in the sports science and exercise domain Attend presentations workshops and discussions led by professionals who can provide valuable knowledge and experiences Enhance your professional profile by showcasing your involvement in a reputable international seminar Gain recognition for your commitment to staying informed and engaged in your field *Catalog of Copyright Entries* Library of Congress. Copyright Office, 1923 Practical Mathematics ... Albert Dakin, 1921 **The American Mathematical Monthly**, 1921 Includes section Recent publications **UPSC NDA Mathematics (Paper I) Prep Book | 1300+ Solved Questions (8 Full-length Mock Tests + 3 Previous Year Papers)** EduGorilla Prep Experts, 2022-08-03 Best Selling Book in English Edition for UPSC NDA Mathematics Paper I Exam with objective type questions as per the latest syllabus given by the UPSC Compare your performance with other students using Smart Answer Sheets in EduGorilla's UPSC NDA Mathematics Paper I Exam Practice Kit UPSC NDA Mathematics Paper I Exam Preparation Kit comes with 11 Tests 8 Full length Mock Tests 3 Previous Year Papers with the best quality content Increase your chances of selection by 14X UPSC NDA Mathematics Paper I Exam Prep Kit comes with well structured and 100% detailed solutions for all the questions Clear exam with good grades using thoroughly Researched Content by experts *Catalogue of Copyright Entries*, 1922-07 Examination Papers for Entrance and Minor Scholarships and Exhibitions University of Cambridge, 1899 *Army Education*, 1927 **Learning in the Fast Lane** Chester E. Finn, Jr., Andrew E. Scanlan, 2019-09-17 The first book to tell the story of the Advanced Placement program the gold standard for academic rigor in American high schools The Advanced Placement program stands as the foremost source of college level academics for millions of high school students in the United States and beyond More than 22 000 schools now participate in it across nearly forty subjects from Latin and art to calculus and computer science Yet remarkably little has been known about how this nongovernmental program became one of the greatest success stories in K 12 education until now In Learning in the Fast Lane Chester Finn and Andrew Scanlan two of the country's most respected education analysts offer a groundbreaking account of one of the most important educational initiatives of our time Learning in the Fast Lane traces the story of AP from its mid twentieth century origins as a niche benefit for privileged students to its emergence as a springboard to college for high schoolers nationwide including hundreds of thousands of disadvantaged youth Today AP not only opens new intellectual

horizons for smart teenagers but also strengthens school ratings attracts topflight teachers and draws support from philanthropists reformers and policymakers At the same time it faces numerous challenges including rival programs curriculum wars charges of elitism the misgivings of influential universities and the difficulty of infusing rigor into schools that lack it In today s polarized climate can AP maintain its lofty standards and surmount the problems that have sunk so many other bold education ventures Richly documented and thoroughly accessible *Learning in the Fast Lane* is a must read for anyone with a stake in the American school system *Catalog of Copyright Entries. Part 1. [B] Group 2. Pamphlets, Etc. New Series* Library of Congress. Copyright Office, 1923

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