

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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SB Merriam



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Capacity Building in Educational Research in Southern Africa Charles M. Nherera, Pamela Machakanja, P. W. Mamimine, 1999 **National Inventory of Research Projects and Priority Areas of Research**, 1991 *Peterson's Graduate Programs in the Physical Sciences, Mathematics, Agricultural Sciences, the Environment & Natural Resources 2012* Peterson's, 2011-12-30 Graduate Programs in the Physical Sciences Mathematics Agricultural Sciences the Environment Natural Resources 2012 contains more than 2 900 graduate programs in 59 disciplines including agriculture and food sciences astronomy and astrophysics chemistry physics mathematics environmental sciences and management natural resources marine sciences and more This guide is part of Peterson's six volume Annual Guides to Graduate Study the only annually updated reference work of its kind provides wide ranging information on the graduate and professional programs offered by U S accredited colleges and universities in the United States and throughout the world Informative data profiles for more than 2 900 graduate programs in 59 disciplines including facts and figures on accreditation degree requirements application deadlines and contact information financial support faculty and student body profiles Two page in depth descriptions written by featured institutions offer complete details on specific graduate programs schools or departments as well as information on faculty research and the college or university Expert advice on the admissions process financial support and accrediting agencies Comprehensive directories list programs in this volume as well as others in the graduate series Up to date appendixes list institutional changes since the last addition along with abbreviations used in the guide

Mathematical Reviews, 1997 **Graduate Programs in the Physical Sciences, Mathematics, Agricultural Sciences, the Environment, and Natural Resources 2009** Peterson's, 2007-11 The six volumes of Peterson's Annual Guides to Graduate Study the only annually updated reference work of its kind provide wide ranging information on the graduate and professional programs offered by accredited colleges and universities in the United States and U S territories and those in Canada Mexico Europe and Africa that are accredited by U S accrediting bodies Books 2 through 6 are divided into sections that contain one or more directories devoted to individual programs in a particular field Book 4 contains more than 3 800 programs of study in 56 disciplines of the physical sciences mathematics agricultural sciences the environment and natural resources **Commonwealth Universities Yearbook**, 1970 A directory to the universities of the Commonwealth and the handbook of their association **Official Register of the Officers and Cadets** United States Military Academy, 1969 **American Men and Women of Science**, 1979 *Journal of Engineering for Industry*, 1996

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Wang, Mu-Hao Sung Wang, Yung-Tse Hung, Jiaping Paul Chen, 2025-03-21 Offering broad coverage of both basic and advanced principles and applications Control of Heavy Metals in the Environment series provides environmental and chemical engineers with the most complete resources available on the remediation of heavy metal contaminants with an emphasis on innovative approaches It investigates a variety of environmental pollution sources and waste characteristics that require a multitude of remediation methods It also details the latest in clean tech advances including flotation and filtration technologies and discusses the treatment of wastewater surface water groundwater and more It includes several case histories to illustrate the regional and global effects of key pollution control practices Features Provides technical information for industrial and hazardous waste treatment Explores the newest methods of clean production and waste minimization Includes numerous figures tables examples and case histories

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