

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'

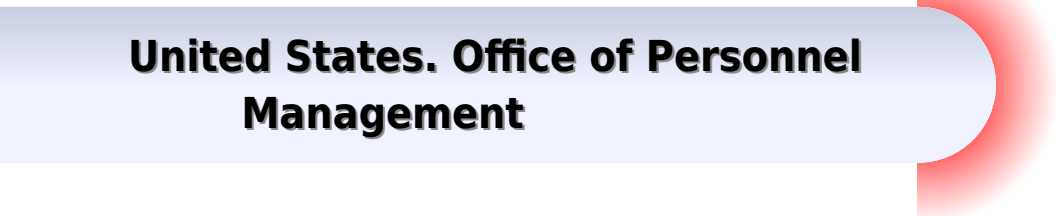
5 × 3 × 2 = 30

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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**United States. Office of Personnel
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Resources in Education ,1999 Mathematics for Life and Work A Comparative Perspective on Mathematics to Inform Upper Secondary Reform in England OECD,2024-11-05 Engagement and performance in mathematics at the upper secondary level have been the concern of successive governments in England This report was commissioned as part of the country s policy reflections for transforming how maths is viewed and experienced in England The report explores outcomes such as the share of students studying maths and performance across countries and how education systems internationally deliver mathematics in upper secondary It also examines factors shaping maths education including the expectations set by curricula student pathways cultural perceptions and the needs of the labour market and higher education Research in Education ,1973 **The Electrical Review** ,1966 **Federal Wage System** United States. Office of Personnel Management,1980 **Telegraphic Journal and Monthly Illustrated Review of Electrical Science** ,1962 Press Summary - Illinois Information Service Illinois Information Service,1991 **The Architect & Building News** ,1961

Annual Report of the Department of Education Nova Scotia. Department of Education,1964 History Textbooks and the Wars in Asia Gi-Wook Shin,Daniel C. Sneider,2011-02-08 Over the past fifteen years Northeast Asia has witnessed growing intraregional exchanges and interactions especially in the realms of culture and economy Still the region cannot escape from the burden of history This book examines the formation of historical memory in four Northeast Asian societies China Japan South Korea and Taiwan and the United States focusing on the period from the beginning of the Sino Japanese war in 1931 until the formal conclusion of the Pacific War with the San Francisco Peace Treaty of 1951 The contributors analyse the recent efforts of Korean Japanese and Chinese scholars to write a common history of Northeast Asia and question the underlying motivations for their efforts and subsequent achievements In doing so they contend that the greatest obstacle to reconciliation in Northeast Asia lies in the existence of divided and often conflicting historical memories The book argues that a more fruitful approach lies in understanding how historical memory has evolved in each country and been incorporated into respective master narratives Through uncovering the existence of different master narratives it is hoped citizens will develop a more self critical self reflective approach to their own history and that such an introspective effort has the potential to lay the foundation for greater self and mutual understanding and eventual historical reconciliation in the region This book will be essential reading for students and scholars of Asian history Asian education and international relations in East Asia **Economic and Social Survey, Jamaica** ,1989 **Adult Vocational ESL** Jo Ann Crandall,1979

Results and Interpretations of the 1990 Through 2000 Mathematics Assessments of the National Assessment of Educational Progress Peter Kloosterman, Frank K. Lester,2004 Often referred to as The Nation s Report Card the mathematics assessments of the National Assessment of Educational Progress NAEP have come to be regarded by many policymakers as the primary yardstick by which to judge our schools success in meeting national expectations This

monograph reports and interprets trends in NAEP mathematics data collected between 1990 and 2000 New Jersey
Register ,2002 **Chemistry and Industry Review** ,1960 **Commonwealth Universities Yearbook** ,1987 A directory
to the universities of the Commonwealth and the handbook of their association *Surveyor and Municipal and County*
Engineer ,1939 Telegraphic Journal and Electrical Review ,1958 **Current Index to Journals in Education** ,2000
Illinois Education ,1958

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