

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...

14 Mathematics Paper Scope Final Exam Grade 11

Daniela Niemeyer



14 Mathematics Paper Scope Final Exam Grade 11:

Resources in Education ,1999 *Legislative Documents* Iowa,1912 Contains the reports of state departments and officials for the preceding fiscal biennium **Research in Education** ,1974 *Cycles of Poverty and Crime in America's Inner Cities* Lewis D. Solomon,2012-08-14 Despite the best hopes of the past half century black urban pathologies persist in America The inner cities remain concentrations of the uneducated unemployed underemployed and unemployable Many fail to stay in school and others choose lives of drugs violence and crime Most do not marry leading to single parent households and children without a father figure The cycle repeats itself generation after generation It is easy to argue that nothing works given the policy failures of the past For Lewis D Solomon fatalism is not acceptable A complex and interrelated web of issues plague inner city black males joblessness the failure of public education crime mass incarceration and drugs the collapse of married two parent families and negative cultural messages Rather than abandon the black urban underclass Solomon presents strategies and programs to rebuild lives and revitalize America s inner cities These approaches are neither government oriented nor dependent on federal intervention and they are not futuristic Focusing on rehabilitative efforts Solomon describes workforce development prisoner reentry and the role of nonprofit organizations Solomon s strategies focus on the need to improve the quality of America s workforce through building human capital at the socioeconomic bottom The goal is to enable more people to fend for themselves thereby weaning them from dependency on public sector handouts Solomon shows a path forward for inner city black males **The City Record** New York (N.Y.),1917 *Proceedings of IAC in Dresden 2018* group of authors,2018-12-10 International Academic Conference on Teaching Learning and E learning in Dresden 2018 International Academic Conference on Management Economics and Marketing in Dresden 2018 **Schedule of Examinations and Instructions to Applicants** United States Civil Service Commission,1896 **The Public and Preparatory Schools Year Book** ,1983 *Economic and Social Survey, Jamaica* ,1989 *National Assessment of Educational Progress 1969-1983* Theodore B. Pratt,1984 During its first 14 years of existence the National Assessment of Educational Progress NAEP was located at the Education Commission of the States ECS This annotated bibliography of 575 references lists all major publications by or about NAEP published between 1969 and 1983 References are in a classified arrangement by specific or special assessment Documents not dealing with a specific assessment are grouped by Methodological Publications Special Analyses and General and Miscellaneous Materials by NAEP are separated from materials about NAEP done by external organizations Subject Personal Author and Preparing Institution indexes are provided The compilation is based on materials documents and journal articles archived in the database of the Educational Resources Information Center ERIC and therefore most documents cited can be obtained through the ERIC Document Reproduction Service EDRS WTB

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