

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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JE Gale



Maths Paper 1 June Exam Caps 2013:

Assessing Academic Literacy in a Multilingual Society Albert Weideman, John Read, Theo du Plessis, 2020-11-02 South African universities face major challenges in meeting the needs of their students in the area of academic language and literacy. The dominant medium of instruction in the universities is English and to a much lesser extent Afrikaans but only a minority of the national population are native speakers of these languages. Nine other languages can be media of instruction in schools which makes the transition to tertiary education difficult enough in itself for students from these schools. The focus of this book is on procedures for assessing the academic language and literacy levels and needs of students not in order to exclude students from higher education but rather to identify those who would benefit from further development of their ability in order to undertake their degree studies successfully. The volume also aims to bring the innovative solutions designed by South African educators to a wider international audience.

Kenya Gazette, 1974-06-28 The Kenya Gazette is an official publication of the government of the Republic of Kenya. It contains notices of new legislation, notices required to be published by law or policy as well as other announcements that are published for general public information. It is published every week usually on Friday with occasional releases of special or supplementary editions within the week.

STEM and the City Clair Berube, SueAnne McKinney, 2025-09-24 STEM and the City second edition is a book that takes the topics of the first edition and brings them into a post Covid educational world. Drs Berube and McKinney use their experience in the classroom to reassure teachers especially STEM teachers that despite the current culture wars the children of America still need you.

School Rethink 2.0 Frederick M. Hess, Michael B. Horn, Juliet Squire, 2025-02-12 Ten brilliant approaches that are disrupting US education and actionable advice for their broader implementation.

Pressure Transient Analysis Djebbar Tiab, 2024-09-04 Pressure Transient Analysis Pressure Derivative provides focuses on applications of pressure and derivative data for interpretation of pressure transient tests offering alternatives to costly commercial software. Building from basics this practical text spans wells near single and multi boundary systems hydraulically fractured wells naturally fractured reservoirs interpretation of interference and pulse tests gas well test analysis including sources of emissions and decarbonizing strategies geological sequestration CCS risks and stress on CCS multiphase flow injectivity and falloff tests rate transient and multi rate tests partially penetrated perforated vertical and slanted wells and horizontal wells in conventional and unconventional reservoirs. Many techniques and equations presented in this book can be found in the black box of commercial well test analysis software packages. This practical text unlocks, unpacks and makes critical analytical tools accessible to core users. Delivers an alternative technique to type curve matching using the loglog analysis. Introduces simple analytical equations used in the step by step procedure for analyzing pressure transient tests. Presents common cases encountered by practicing engineers inspired by a robust literature review boasting over 500 diverse global sources. Includes 75 solved simulated exercises and field cases along with 81 unsolved problems simulated and field cases to reinforce learning.

Supports sustainability and the reduction of carbon emissions by addressing carbon footprints emissions sources and decarbonizing strategies carbon capture storage and CO2 storage An Asset-Based Approach to Advancing Latina Students in STEM Elsa Gonzalez, Frank Fernandez, Miranda Wilson, 2020-11-18 This timely volume challenges the ongoing underrepresentation of Latina women in science technology engineering and mathematics STEM and highlights resilience as a critical communal response to increasing their representation in degree programs and academic posts An Asset Based Approach to Advancing Latina Students in STEM documents the racialized and gendered experiences of Latinas studying and researching in STEM in US colleges and centers resilience as a critical mechanism in combating deficit narratives Adopting an asset based approach chapters illustrate how Latinas draw on their cultural background as a source of individual and communal strength and indicate how this cultural wealth must be nurtured and used to inform leadership and policy to motivate encourage and support Latinas on the pathway to graduate degrees and successful STEM careers By highlighting strategies to increase personal resilience and institutional retention of Latina women the text offers key insights to bolstering diversity in STEM This text will primarily appeal to academics scholars educators and researchers in the fields of STEM education It will also benefit those working in broader areas of higher education and multicultural education as well as those interested in the advancement of minorities inside and outside of academia Elsa M Gonzalez is Assistant Professor of Higher Education at the University of Houston USA Frank Fernandez is Assistant Professor of Higher Education at the University of Mississippi USA Miranda Wilson earned a Ph D in Higher Education Leadership and Policy Studies at the University of Houston USA The Kenya Gazette Kenya, 1974 **Backpacker** , 2001-03 Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured International Aerospace Abstracts , 1963 **Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971** New York Public Library. Research Libraries, 1979

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