

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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Rosina Ehmann



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HCI International 2024 - Late Breaking Papers Jessie Y. C. Chen, Gino Fragomeni, Norbert A. Streitz, Shin'ichi Konomi, Xiaowen Fang, 2024-12-14 This nine volume set LNCS 15473 15482 constitutes the proceedings of the 26th International Conference HCI International 2023 in Washington DC USA in June July 2024 For the HCCII 2024 proceedings a total of 1271 papers and 309 posters was carefully reviewed and selected from 5108 submissions Additionally 222 papers and 104 posters are included in the volumes of the proceedings published after the conference as Late Breaking Work These papers were organized in the following topical sections HCI Theories Methods and Tools Multimodal Interaction Interacting with Chatbots and Generative AI Interacting in Social Media Fintech Consumer Behavior and the Business Environment Design for Health and Wellbeing Ergonomics and Digital Human Modelling Virtual Experiences in XR and the Metaverse Playing Experiences Design for Learning New Cultural and Tourism Experiences Accessibility and Design for All Design for Older Adults User Experience Design and Evaluation Novel Approaches and Case Studies Safety Security and Privacy HCI in Automated Vehicles and Automotive HCI in Aviation Transport and Safety Human Centered AI AI for Decision Making and Sentiment Analysis

19 Previous Year NDA/ NA Mathematics, English & General Knowledge Topic-wise Solved Papers (2006 - 2023) - set of 2 Books - 9th Edition | 35 Authentic Papers | 9450 MCQs Disha Experts, 2024-10-22 The 9th updated edition of the Combo set of 2 Books 19 Previous Year NDA NA English General Knowledge Mathematics Topic wise Solved Papers 2006 2024 contains 37 Question papers of Mathematics held from April 2006 to September 2024 The complete syllabus of NDA NA is divided into 56 Topics Mathematics 24 Topics English 8 Topics General Knowledge 24 Topics The Book consists of more than 9990 MCQs Mathematics 4440 MCQs English 1850 MCQs General Knowledge 3700 MCQs distributed among 56 Topics The strength of the book lies in the originality of its question papers and Errorless Solutions The Book provides detailed step by step solutions to provide 100% concept clarity to the students

Color Image Processing Edoardo Provenzi, 2018-05-22 This book is a printed edition of the Special Issue Color Image Processing that was published in J Imaging

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

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

Clinical Chemistry: Principles, Techniques, and Correlations with Navigate Advantage Access Michael L. Bishop, Edward P. Fody, Carleen Van Siclen, James March Mistler, 2022-03-10 This edition carries on the tradition of excellence for this book If you are learning clinical chemistry or a practitioner wanting a contemporary refresher this book is for you Get it Valerie L Ng PhD MD Alameda County Medical Center and Highland Hospital Score 97 5 Stars Clinical Chemistry Principles Techniques and Correlations Ninth Edition is the most student friendly clinical chemistry text available today The Ninth Edition keeps students at the forefront of what continues to be one of the most rapidly advancing areas of laboratory medicine with clear explanations that balance analytic principles techniques and correlation of results with coverage of disease states The book not only demonstrates the how of clinical testing but also the what why and when of testing correlations to help students develop the knowledge and interpretive and analytic skills they ll need in their future careers The Ninth Edition s content is mapped to ASCLS entry level curriculum and ASCP Board of Certification guidelines Every new print copy includes Navigate Advantage Access that unlocks an interactive eBook with Knowledge Check questions and quizzes case studies review questions flashcards reference range table general reference tables and a supplementary chapter Molecular Theory and Techniques Over 80 new Case Studies which include scenarios lab results and questions give you an opportunity to apply content to clinical practice Coverage of the latest equipment and technologies used in the modern lab prepares you for real world practice Practical clinically based coverage reflects the most recent or commonly performed techniques in the clinical chemistry laboratory Insightful coverage of the impact of problem solving quality assurance and cost effectiveness on the laboratory professional prepares you for clinical practice Useful in text learning aids include chapter outlines and chapter objectives tables that condense and augment theory coverage and end of chapter questions that help you assess your level of mastery A robust Health Professions Basic Math Review module provided in the online component provides study tools and worksheets to help you review the math concepts required to be successful

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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

Advertising, Gender and Society Magdalena Zawisza-Riley, 2019-07-03 Advertising Gender and Society explores contemporary social psychological theory and original research that examines the portrayal of gender in advertising It reports empirical data discusses the social implications of gendered advertising and comments on the relevant 2019 ASA rules Zawisza Riley analyses theories such as stereotype content and elaboration likelihood models stereotype threat and ambivalent sexism theories the selectivity hypothesis as well as implicit and embodied cognition to illuminate the relationships between sex gender and advertising in cultural and social contexts The author thus examines the portrayal of gender in advertising its effectiveness and effect on audiences and the ways in which audiences marketers and policy makers can mitigate potential harm of gendered advertising She offers theory extension and novel application of existing theory and research to the subject of gender advertising Advertising Gender and Society is ideal for students academics and professionals in the fields of psychology gender and media studies as well as marketing advertising and policy making

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