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NATIONAL CERTIFICATE

ENGINEERING SCIENCE N3

{15070413}

30 March (X-Paper)
09:00 – 12:00

REQUIREMENTS: Properties of water and steam (BOE 173)

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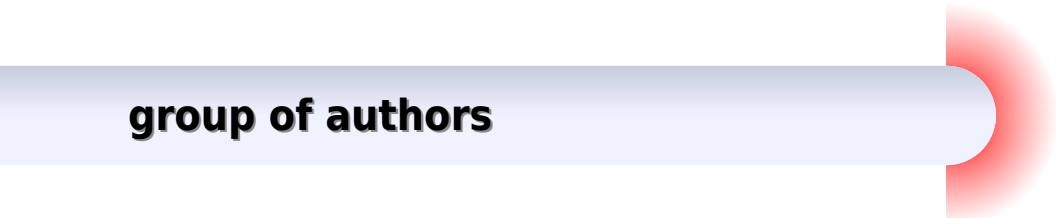
Candidates will require drawing instruments.

Calculators may be used.

This question paper consists of 8 pages, 1 information sheet and a 2-page formula sheet.

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Securing the Internet of Things: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2019-09-06 The ubiquity of modern technologies has allowed for increased connectivity between people and devices across the globe This connected infrastructure of networks creates numerous opportunities for applications and uses As the applications of the internet of things continue to progress so do the security concerns for this technology The study of threat prevention in the internet of things is necessary as security breaches in this field can ruin industries and lives Securing the Internet of Things Concepts Methodologies Tools and Applications is a vital reference source that examines recent developments and emerging trends in security and privacy for the internet of things through new models practical solutions and technological advancements related to security Highlighting a range of topics such as cloud security threat detection and open source software this multi volume book is ideally designed for engineers IT consultants ICT procurement managers network system integrators infrastructure service providers researchers academics and professionals interested in current research on security practices pertaining to the internet of things **Abstractions and Embodiments** Janet

Abbate, Stephanie Dick, 2022-08-30 This anthology of original historical essays examines how social relations are enacted in and through computing using the twin frameworks of abstraction and embodiment The book highlights a wide range of understudied contexts and experiences such as computing and disability working mothers as technical innovators race and community formation and gaming behind the Iron Curtain Proceedings of MAC-ETeL 2016 group of authors, 2016-08-04 Multidisciplinary Academic Conference on Education Teaching and E learning Czech Republic Prague MAC ETeL 2016

Intelligent Communication, Control and Devices Rajesh Singh, Sushabhan Choudhury, Anita Gehlot, 2018-04-10 The book focuses on the integration of intelligent communication systems control systems and devices related to all aspects of engineering and sciences It contains high quality research papers presented at the 2nd international conference ICICCD 2017 organized by the Department of Electronics Instrumentation and Control Engineering of University of Petroleum and Energy Studies Dehradun on 15 and 16 April 2017 The volume broadly covers recent advances of intelligent communication intelligent control and intelligent devices The work presented in this book is original research work findings and practical development experiences of researchers academicians scientists and industrial practitioners *SOFSEM 2019: Theory and Practice of Computer Science* Barbara Catania, Rastislav Kráľovič, Jerzy Nawrocki, Giovanni Pighizzini, 2019-01-10 This book constitutes the refereed proceedings of the 45th International Conference on Current Trends in Theory and Practice of Computer Science SOFSEM 2019 held in Nov Smokovec Slovakia in January 2019 The 34 full papers presented together with 6 invited talks were carefully reviewed and selected from 92 submissions They presented new research results in the theory and practice of computer science in the each sub area of SOFSEM 2019 Foundations of theoretical Computer Science foundations of data science and engineering and foundations of software engineering *Women in Science Now* Lisa M. P.

Munoz,2023-10-31 Silver Medal in the Social Change and Social Justice Category 2024 Nautilus Book Awards Winner 2024 Choice Outstanding Academic Title Women working in the sciences face obstacles at virtually every step along their career paths From subtle slights to blatant biases deep systemic problems block women from advancing or push them out of science and technology entirely Women in Science Now examines solutions to this persistent gender gap offering new perspectives on how to make science more equitable and inclusive for all This book shares stories and insights of women from a range of backgrounds working in various disciplines illustrating the journeys that brought them to the sciences the challenges they faced along the way and the important contributions they have made to their fields Lisa M P Munoz combines these narratives with a wealth of data to illuminate the size and scope of the challenges women scientists face while highlighting research based solutions to help overcome these obstacles She presents groundbreaking studies in social psychology and organizational behavior that are informing novel approaches for combating historic and ongoing inequities Through a combined focus on personal experiences and social science research this timely book provides both a path toward greater gender equity and an inspiring vision of science and scientists

Wetlands of Tropical and Subtropical Asia and Africa

Thammineni Pullaiah,2025-05-27 A comprehensive survey of exemplary wetlands that highlights their importance for local livelihoods as well as for global biodiversity Covering 17 different regions Wetlands of Tropical and Subtropical Asia and Africa provides detailed information on some of the world s most important wetlands and wetland types across those countries as well as their current and potential biological resources Each wetland is analyzed by a regional expert Written with UN sustainable development goals in mind Wetlands of Tropical and Subtropical Asia and Africa includes information on Recommendations for the sustainable management of wetlands in the Asian and African tropics The importance of sustaining local economic livelihoods in each wetland region by providing food resources as well as recreational opportunities Wetland ecosystem services including carbon sequestration water filtration nutrient retention and flood mitigation Threats to the integrity of each wetland region as well as management strategies and practical conservation and restoration measures Wetlands of Tropical and Subtropical Asia and Africa is an essential reference on the subject for ecologists conservation scientists hydrologists and environmental and water resource managers Governmental agencies and professionals in fisheries agriculture and rural development will also find value in the book

Interdisciplinary Research in Technology and Management

Satyajit Chakrabarti,Rintu Nath,Pradipta Kumar Banerji,Sujit Datta,Sanghamitra Poddar,Malay Gangopadhyaya,2021-09-14 The conference on Interdisciplinary Research in Technology and Management was a bold experiment in deviating from the traditional approach of conferences which focus on a specific topic or theme By attempting to bring diverse inter related topics on a common platform the conference has sought to answer a long felt need and give a fillip to interdisciplinary research not only within the technology domain but across domains in the management field as well The spectrum of topics covered in the research papers is too wide to be singled out for specific mention but it is noteworthy

that these papers addressed many important and relevant concerns of the day *Engineering Challenges for Sustainable Future* Noor Amila Wan Abdullah Zawawi, 2016-12-01 *Engineering Challenges for Sustainable Future* contains the papers presented at the 3rd International Conference on Civil Offshore Environmental Engineering ICCOEE2016 Kuala Lumpur Malaysia 15-17 August 2016 under the banner of World Engineering Science Technology Congress ESTCON2016 The ICCOEE series of conferences started in Kuala Lumpur Malaysia 2012 and the second event of the series took place in Kuala Lumpur Malaysia 2014 This conference series deals with the civil offshore environmental engineering field addressing the following topics Environmental and Water Resources Engineering Coastal and Offshore Engineering Structures and Materials Construction and Project Management Highway Geotechnical and Transportation Engineering and Geo informatics This book is an essential reading for academic engineers and all professionals involved in the area of civil offshore and environmental engineering Digital Twins and Healthcare: Trends, Techniques, and Challenges Gaur, Loveleen, Jhanjhi, Noor Zaman, 2022-11-25 The healthcare industry is starting to adopt digital twins to improve personalized medicine healthcare organization performance and new medicine and devices These digital twins can create useful models based on information from wearable devices omics and patient records to connect the dots across processes that span patients doctors and healthcare organizations as well as drug and device manufacturers Digital twins are digital representations of human physiology built on computer models The use of digital twins in healthcare is revolutionizing clinical processes and hospital management by enhancing medical care with digital tracking and advancing modelling of the human body These tools are of great help to researchers in studying diseases new drugs and medical devices *Digital Twins and Healthcare Trends Techniques and Challenges* facilitates the advancement and knowledge dissemination in methodologies and applications of digital twins in the healthcare and medicine fields This book raises interest and awareness of the uses of digital twins in healthcare in the research community Covering topics such as deep neural network edge computing and transfer learning method this premier reference source is an essential resource for hospital administrators pharmacists medical professionals IT consultants students and educators of higher education librarians and researchers

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