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C A R I B B E A N E X A M I N A T I O N S C O U N C I L

**SECONDARY EDUCATION CERTIFICATE
EXAMINATION**

INFORMATION TECHNOLOGY

Paper 02 – General Proficiency

2 hours 15 minutes

14 MAY 2012 (a.m.)

READ THE FOLLOWING INSTRUCTIONS CAREFULLY.

1. This paper consists of **THREE** sections and a total of **TWELVE** questions. Candidates **MUST** answer **ALL** questions in all **THREE** sections.
2. Number **EACH** answer correctly in the answer booklet.
3. Code is to be written in the programming language, **Pascal**.

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L Darling-Hammond



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Introduction to Radiologic and Imaging Sciences and Patient Care E-Book Arlene M. Adler, Richard R. Carlton, Kori L. Stewart, 2022-08-11 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Radiologic Technology Using a clear and concise format Introduction to Radiologic and Imaging Sciences and Patient Care 8th Edition familiarizes you with the imaging sciences and covers the patient care skills necessary for clinical practice It offers current comprehensive content that meets the relevant standards set by the American Society of Radiologic Technologists ASRT Curriculum Guide and the American Registry of Radiologic Technologists ARRT Task List for certification examinations This edition includes updates on current digital imaging and instrumentation providing the essential information and tools you need to master any introduction to radiologic sciences or patient care class Chapter review questions and lab activities available online and on tear sheets in the text give you easy access to study materials for on the go learning In addition to helping you prepare for certification the content provides useful and practical information that is essential for professional practice and clinical competency Expanded and updated career content addresses professional development and advancement Patient care content includes information on biomechanics and ergonomics of the radiologic and imaging sciences professional Information management coverage provides an overview of health informatics for the radiologic and imaging sciences professional Step by step procedures presented in boxed lists throughout the text supply you with easy to follow steps for clinical success Back of book review questions and questions to ponder provide opportunities for further review and greater challenge More than 300 photos and line drawings help you understand and visualize patient care procedures Strong pedagogy including chapter objectives key terms outlines and summaries organize information and ensure you understand what is most important in every chapter NEW Comprehensive coverage encompasses the greater breadth and depth of all primary modalities of the radiologic and imaging sciences as they relate to patient care **Mountstuart Elphinstone in South Asia** Shah Mahmoud Hanifi, 2019 Examines the life of one of the principal intellectual architects of British colonial rule in South Asia **Robert Wedderburn** Ryan Hanley, 2025-02-25 The first ever biography of the ultra radical thinker Robert Wedderburn from his native Jamaica to metropole London by an award winning historian Robert Wedderburn 1762 1834 5 was one of the most charismatic irascible and radical intellectuals of the eighteenth and early nineteenth century Atlantic world Born to an enslaved woman and a slavemaster in Jamaica and moving in the radical working class circles of London Wedderburn made his name as a fiery political writer and orator before dying forgotten in poverty Among the few abolitionists bold enough to publicly call for the enslaved in the British West Indies to rise up and violently overthrow their colonial masters Wedderburn was also among the most outspoken and amid an increasingly repressive British establishment dangerous advocates for domestic political reform and working class rights From award winning scholar Ryan Hanley this is the first full length biography of a man increasingly recognized as central to Black

radical political thought in the Revolutionary Atlantic Tapping newly rediscovered sources Hanley details Wedderburn's extraordinary public and private life explores the central influence of enslaved women on his political ideas and offers fresh analysis of his contributions to British political thought and activism

AI Act Rolf Schwartmann, Tobias O. Keber, Kai Zenner, 2025-01-13 The new AI act will have significant consequences for civil society and the economy The text will enter into force in the summer of 2024 the first provisions will apply just six months later The aim of the European legislator was to provide better protection against the dangers of AI while at the same time promoting innovation In parallel to the beginning implementation of the AI Act the practical guide tries to elaborate and assess the regulation systemically It provides legal users with an initial but reliable orientation when using the technology In addition to the basics in the AI regulation itself practice relevant areas are classified in the annexes on high risk AI systems The use cases range from biometric identification of natural persons to questions of education as well as labor law to the use in the judiciary related to law enforcement and administration of justice Special attention is paid to the comprehensible communication of the complex technical interrelationships in the use of artificial intelligence In addition the questions of the relationship to the other digital and data law of the EU above all the GDPR which arise in business practice are assessed This becomes particularly relevant for example in the case of transparency requirements technical data protection and risk assessment Finally the work addresses practice relevant liability issues and presents enforcement by the supervisory regime At a glance Classification of concrete use cases in regulation by the AI Regulation AI Regulation in distinction to the GDPR e.g. transparency requirements technical data protection and risk assessment Mediation of technical contexts in the implementation of legal obligations Liability for AI Checklists for the use of AI in the company Professor Dr Rolf Schwartmann is head of the Cologne Research Center for Media Law at the Cologne University of Technology and chairman of the Society for Data Protection and Data Security as well as editor and author of numerous specialist publications on data protection and digital law Professor Dr Tobias Keber is the State Commissioner for Data Protection and Freedom of Information in Baden Württemberg and previously conducted research on Artificial Intelligence at the Stuttgart Media University Kai Zenner is Head of Office for MEP Axel Voss EPP rapporteur for the AI Regulation and has been intensively involved in the negotiations for the adoption of the law Besides he is One AI Member OECD and advises the High Level Advisory Body on AI HLAB AI of the United Nations In June 2023 he received the MEP Award for best Accredited Parliamentary Assistant for his work and dedication in the European Parliament AI Act AI KI artificial intelligence k nstliche Intelligenz

Inventing Academic Freedom Peter C. Kent, 2012-09-24 In 1968 there was political ferment everywhere In Paris students were in the streets In the U.S. civil rights the Vietnam War and protests against the draft brought out millions In this atmosphere a young Jewish American professor in the quiet town of Fredericton New Brunswick sparked a controversy that established the principles of academic freedom on Canadian campuses Norman Strax was an unlikely figure in a conservative town with a sleepy university campus He didn't

dress like other faculty members he drove a funny car and he didn't socialize much with his colleagues The university president Colin Mackay was a young scion of the local establishment who ran the university as if it belonged to him With his links to Lord Beaverbrook the Irvings and the provincial government he was confident of support for his paternalistic way of doing things When Strax and some students protested a new library regulation Colin Mackay abruptly suspended Strax from his teaching position A sit in followed and the university dragged Strax into court Before long the provincial government and the judiciary were involved So were university professors across Canada In the end the Strax Affair was the catalyst for a new approach to governance at Canadian universities and was key to establishing the principles of academic freedom

Parliamentary Papers Great Britain. Parliament. House of Commons, 1843 A Strange Business James

Hamilton, 2015-09-15 Britain in the nineteenth century saw a series of technological and social changes which continue to influence and direct us today Its reactants were human genius money and influence its crucibles the streets and institutions its catalyst time its control the market In this rich and fascinating book James Hamilton investigates the vibrant exchange between culture and business in nineteenth century Britain which became a center for world commerce following the industrial revolution He explores how art was made and paid for the turns of fashion and the new demands of a growing middle class prominent among whom were the artists themselves While leading figures such as Turner Constable Landseer Coleridge Wordsworth and Dickens are players here so too are the patrons financiers collectors and industrialists publishers entrepreneurs and journalists artists suppliers engravers dealers and curators hostesses shopkeepers and brothel keepers quacks charlatans and auctioneers Hamilton brings them all vividly to life in this kaleidoscopic portrait of the business of culture in nineteenth century Britain and provides thrilling and original insights into the working lives of some of the era's most celebrated artists **Bibliography of Agriculture** ,1955 *Arts & Humanities Citation Index* ,2000

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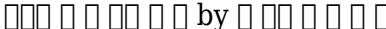
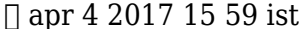
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circuit boards pcbs the upper pcb contains the four radiating cavity backed slots where the cavity is formed in substrate integrated waveguide siw using metalized via holes

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apr 3 2020 a novel low profile substrate integrated waveguide siw cavity backed slot antenna with an enhanced gain is proposed by etching four parallel transverse slots at the edges of the hexagonal siw cavi

development of a wideband hexagonal siw cavity backed slot antenna - Aug 20 2023

sep 1 2021 in this paper a novel wideband hexagonal cavity backed slot antenna array waveguide siw is proposed first a single element low profile wideband linearly polarized cavity backed antenna using two slots is designed and analyzed the antenna bandwidth is increased by nrws which makes both hybrid modes of tm input impedance keywords

a high performance siw slot antenna array for mmwave radar - May 17 2023

jul 24 2023 the feed network of the antenna is composed of an air filled rectangular waveguide rwg to substrate integrated waveguide siw transition and a power division feed network finally the array element and the feed network are combined to form an 8 times 16 slot array the overall simulation design is carried out in hfss