



NATIONAL OPEN UNIVERSITY OF NIGERIA

University Village, Plot 91, Cadastral Zone,
Nnamdi Azikiwe Expressway, Jabi, Abuja

**FACULTY OF SCIENCES
APRIL, 2019 EXAMINATIONS**

Course Code: CIT411
Course Title: Microcomputers and Microprocessors
Course Credit: Unit: 2
Time Allowed: 2 Hours
Instruction: Answer Question 1 and any other three questions

Question 1

- (a) Outline any four types of interrupts – (6 marks)
- (b) Explain briefly the three types of a typical 80x86 processor - (7.5 marks)
- (c) Outline the actions performed by the microcontroller when an interrupt is triggered? - (5 marks)
- (d) How does Harvard architecture differ from Von Neumann architecture? - (4 marks)
- (e) What is a port? - (2.5 marks)

Question 2

- (a) Write an assembly program code each for an input and output operation - (12 marks)
- (b) In what way is the assembly language beneficial – (3 marks)

Question 3

- (a) Briefly discuss the technological innovations of microprocessors - (8 marks)
- (b) What is co-processor trap? How is co-processor instruction different from CPU instruction? - (5 marks)
- (c) What is a microcomputer? - (2 marks)

Question 4

- (a) Enumerate any five different types of applications for microcontrollers and microprocessors? - (10 marks)
- (b) Enumerate any four benefits of assembly language (5 marks)

Question 5

- (a) From the historical development of the microprocessors, mention the examples of microprocessors from leading corporations. - (3 marks)
- (b) Briefly explain the subcategories of computer architecture. – (9 marks)
- (c) Outline the data manipulation operations of the microprocessor - (3 marks)

National University Of Nigeria Past Questions

Sebastian Brünink



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The National Bibliography of Nigeria ,1988 **Questions of Tradition** Mark Salber Phillips,Mark Phillips,Gordon J. Schochet,2004-01-01 Tradition is a central concern for a wide range of academic disciplines interested in problems of transmitting culture across generations Yet the concept itself has received remarkably little analysis A substantial literature has grown up around the notion of invented tradition but no clear concept of tradition is to be found in these writings since the very notion of invented tradition presupposes a prior concept of tradition and is empty without one this debunking usage has done as much to obscure the idea as to clarify it In the absence of a shared concept the various disciplines have created their own vocabularies to address the subject Useful as they are these specialized vocabularies of which the best known include hybridity canonicity diaspora paradigm and contact zones separate the disciplines and therefore necessarily create only a collection of parochial and disjointed approaches Until now there has been no concerted attempt to put the various disciplines in conversation with one another around the problem of tradition Combining discussions of the idea of tradition by major scholars from a variety of disciplines with synoptic synthesizing essays Questions of Tradition will initiate a renewal of interest in this vital subject **National Bibliography of Nigeria** ,1986 Issues for 1973 include section Nigerian periodicals continuing the library s Nigerian periodicals 1950 55 *National Library of Medicine Catalog* National Library of Medicine (U.S.),1966 **Conference Proceedings of the 20th Annual National Conference of the Nigeria Computer Society** Nigeria Computer Society. National Conference,2006 Ethics and Society in Nigeria Nimi Wariboko,2019 Offers a radical political interpretation of history that generates fresh insights into the emancipatory potential of ordinary Nigerians and their precolonial cultural institutions Host Bibliographic Record for Boundwith Item Barcode 30112047793085 and Others ,1903 Newswatch ,2008 Annual Conference Proceedings Science Teachers Association of Nigeria. Conference,2006 History of Soymilk and Other Non-Dairy Milks (1226-2013) William Shurtleff, Akiko Aoyagi,2013-08-29 **Nigerian Publications** ,1970 Strategies and Recommendations for Nigerian Rural Development, 1969-1985 ,1969 *Routledge Companion to Intelligence Studies* Robert Dover,Michael S. Goodman,Claudia Hillebrand,2013-09-05 The Routledge Companion to Intelligence Studies provides a broad overview of the growing field of intelligence studies The recent growth of interest in intelligence and security studies has led to an increased demand for popular depictions of intelligence and reference works to explain the architecture and underpinnings of intelligence activity Divided into five comprehensive sections this Companion provides a strong survey of the cutting edge research in the field of intelligence studies Part I The evolution of intelligence studies Part II Abstract approaches to intelligence Part III Historical approaches to intelligence Part IV Systems of intelligence Part V Contemporary challenges With a broad focus on the origins practices and nature of intelligence the book not only addresses classical issues but also examines topics of recent interest in security studies The overarching aim is to reveal the rich tapestry of intelligence studies in both a sophisticated and

accessible way This Companion will be essential reading for students of intelligence studies and strategic studies and highly recommended for students of defence studies foreign policy Cold War studies diplomacy and international relations in general Agricultural Research ,2011 **Environmental Change and Security Project Report** ,2000 **Nigeria's Soldiers of Fortune** Max Siollun,2019-09-01 In the cataclysmic decade that is the focus of this book Nigeria was subject to several near death experiences These began when the country nearly tore itself apart after the northern led military government annulled the results of a 1993 presidential election won by the southerner Moshood Abiola and ended with former military ruler General Olusegun Obasanjo being the unlikely conduit of democracy This mini history of a nation s life also reflects on three mesmerizing protagonists who personified that era First up is Abiola the multi billionaire businessman who had his election victory voided by the generals who made him rich and who was later assassinated General Sani Abacha was the mysterious reclusive ruler under whose watch Abiola was arrested and pro democracy activists including Abiola s wife were murdered He also oversaw a terrifying Orwellian state security operation Although Abacha is today reviled as a tyrant the author eschews selective amnesia reminding Nigerians that they goaded him into seizing power The third protagonist is Obasanjo who emerged from prison to return to power as an elected civilian leader The penumbra of military rule still looms over Nigeria nearly twenty years after the soldiers departed and key personalities featured in this book remain in government including the current president **Nigeria, Nationalism, and Writing History** Toyin Falola,Saheed Aderinto,2010 The second half of the 20th century saw the publication of massive amounts of literature on Nigeria by Nigerian and non Nigerian historians This volume reflects on that literature focusing on those works by Nigerians in the context of the rise and the decline of African nationalist historiography **Nigerian Federalism** Ibeanu, Okechukwu,Mohammad J., Kuna,2016-11-25 Nigerian Federalism Continuing Quest for Stability and Nation Building explores the nature of and the debate over a number of recurrent issues such as the origins of Nigerian federalism the number of state units in the federal system fiscal issues political parties distributional issues and intergovernmental relations in Nigerian federalism since the establishment of protofederalism under the Richards Constitution 1946 seventy years ago In exploring the issues the book seeks to answer the question what accounts for the persistence of Nigerian federalism despite the serious discontents that the debate throws up now and again The book offers a reinterpretation which argues that the demand for true federalism which anchors the major trend in the age long debate on the structure of Nigerian federalism is ahistorical and therefore static The book uniquely emphasises the need to periodise the practice of Nigerian federalism into four major phases Based on the periodisation two cardinal propositions emerge from the various chapters of the book First in spite of separatist and centrifugal threats to its existence Nigerian federalism has typically never sought to eliminate diversity but to manage it In this sense the construction of Nigeria s federal system from its earliest beginnings shows clearly that it is both a creature of diversity and an understanding that diversity will remain ingrained in its DNA Secondly Nigeria s

federal practice has not sought to mirror any model of true federalism be it in the United States Canada or elsewhere Instead Nigeria s federal system has been a homegrown if unstable modulation between foedus and separatus a constantly negotiated terrain among centripetal and centrifugal forces and between centralisation and decentralisation Consequently a historical periodised understanding of Nigerian federalism is inevitably essential It is this historical and theoretical methodological approach to explaining and understanding Nigerian federalism that gives the book its unique character The book is for the general reader as well as for students including researchers of Nigerian federalism and of Nigerian constitutional and political development policymakers and political parties

Annotated bibliography Wolfgang Nitsch,Walter Weller,2018-12-03 No detailed description available for Annotated bibliography [Yorùbá Elites and Ethnic Politics in Nigeria](#) Wale Adebani,2014-03-31 Yor b Elites and Ethnic Politics in Nigeria investigates the dynamics and challenges of ethnicity and elite politics in Nigeria Africa s largest democracy Wale Adebani demonstrates how the corporate agency of the elite transformed the modern history and politics of one of Africa s largest ethnic groups the Yor b The argument is organized around the ideas and cultural representations of b femi Aw lowo the central signifier of modern Yor b culture Through the narration and analysis of material non material and interactional phenomena such as political party and ethnic group organization cultural politics democratic struggle personal ambitions group solidarity death memory and commemoration this book examines the foundations of the legitimacy of the Yor b political elite Using historical sociology and ethnographic research Adebani takes readers into the hitherto unexplored undercurrents of one of the most powerful and progressive elite groups in Africa tracing its internal and external struggles for power

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web atomic emission spectra electrons in atoms normally occupy the lowest energy states possible such an atom is said to be in the ground state however electrons can be excited to high energy states when they absorb excess energy the excess energy can be provided by heat light or electrical discharge

atomic spectra experiment university of alabama - Jun 01 2023

web atomic spectra experiment introduction in this experiment you will observe the spectra lines emitted by hydrogen gas and mercury gas contained in spectral tubes equipment optical bench meter stick diffraction grating lamp power supply hydrogen and mercury spectral tubes theory

atomic spectra experiment cyberlab sutd.edu.sg - Oct 25 2022

web specialists on hydrogen and hydrogen like systems presents the advances in theory and experiment that have occurred since that time behavior of electrons in atoms nov 30 2022 atomic spectra the interactions between atoms and electrons quantum theory of atomic structure

lab 7 atomic spectra chemistry lab notes chem 1411 studocu - May 20 2022

web lab 7 atomic spectra chemistry lab notes general chemistry i chem 1411 students shared 265 documents in this course

more info the purpose of the lab was to determine the characteristics of visible light that was emitted by different elements we did this by conducting a flame test the purpose was

atomic spectra rutgers university - Jul 22 2022

web fingerprints of the elements atomic spectra as dr matilsky discussed in his video lecture atomic spectra occur due to the fact that orbital radii of electrons and hence their energies are quantized at specific levels determined by the atomic number number of protons and ionization state number of electrons in any given element

atomic spectra a physical chemistry experiment journal of - Feb 26 2023

web in this experiment the student measures the features of a simple spectrum that of sodium an empirical relation is deduced for the frequencies of the lines and the position of unobserved lines is predicted