



TECHNICAL UNIVERISTRY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR DEGREE IN:
BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY
BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY
(BSIT 11M/J-F2 BTIT 13J Y4 S2)

BIT 2318/EIT 4413: INFORMATION SYSTEM AUDIT

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: FEBRUARY 2015

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- Answer Booklet

This paper consists of **FIVE** questions. Attempt question **ONE (Compulsory)** and any other **TWO** questions
Maximum marks for each part of a question are as shown

This paper consists of **THREE** printed pages

Question One (Compulsory)

- a) Define the following terms:
- (i) Data Espionage
 - (ii) Expert Systems
 - (iii) ERP
 - (iv) Information System Audit **(8 marks)**
- b) Explain any **THREE** reason why auditors need to control and audit computers systems. **(3 marks)**
- c) Making high quality decision depends in part on the integrity of data quality of decision rules, explain any **FOUR** data integrity characteristics based on time dimensions **(4 marks)**
- d) List any **TWO** audit software's used by enterprises **(2 marks)**
- e) State and explain any **TWO** commonly techniques used to assess and evaluate risks, polarization and ranking **(4 marks)**
- f) Explain briefly why ERP fits with E-commerce **(1 mark)**
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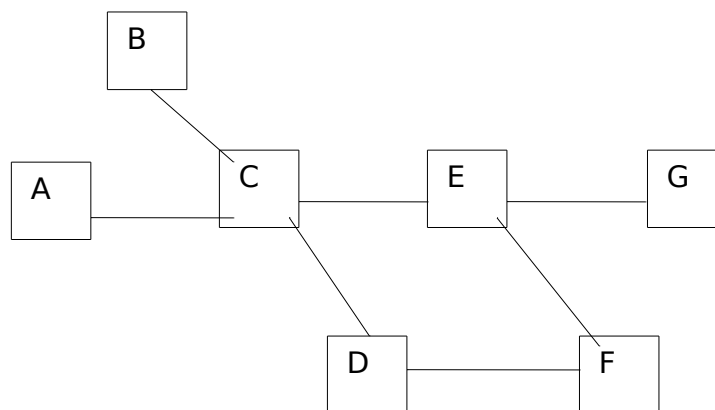
- g) Differentiate by explaining the following terms:
- (i) Business Process Re-engineering and Business Continuity Planning
 - (ii) Mitigation Data Planning and Disaster Recovery Planning
 - (iii) Emergency Plan and Back-up plan
 - (iv) Hypothetical Testing and Component Testing
- (8 marks)**

Question Two

- a) Explain any FOUR major objectives of Information System Auditing? **(8 marks)**
- b) Briefly explain the contribution of the following areas to information system auditing:
- (i) Traditional Auditing
 - (ii) Information System Management
- (4 marks)**
- c) Write a detailed note on the exceptions fear and ground realities that co-operate management faces during BPR (Business Process Re-Engineering) **(8 marks)**

Question Three

- a) With a suitable diagram, explain system development life-cycle (SDLC) in Information System Audit and Control Development **(10 marks)**
- b) Study the diagram below as a technique used to test the functionality of n information system audit:



Answer the following question

- (i) State the type of test used **(1 mark)**
- (ii) List the pathway taken to cover the:
 - Branch coverage
 - Path coverage**(9 marks)**

Question Four

- a) Explain FIVE matters covered by the information system Audit and control association’s code of ethics **(10 marks)**
- b) Define mitigation, state the various steps taken for Risk Mitagtors **(10 marks)**

Question Five

- a) For each of the following threats, give a control that might reduce exposures of an enterprise:
- (i) Pirated software
 - (ii) Employee use of an organization’s computer time for private purposes

- (iii)** Violation of the licensing conditions pertaining to a proprietary database.
- b)** List any TWO major points that should be covered during an audit of security controls over information systems function to assess the adequacy of hand-held fire extinguishers. **(2 marks)**
- c)** Controls over computer operations govern the activities that directly support the data to day execution production system. Briefly write notes on the following types of control:
 - (i)** Operation controls
 - (ii)** Scheduling controls
 - (iii)** Maintenance controls