TECHNICAL UNIVERISTY 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

END OF SEMESTER EXAMINATION
SERIES: DECEMBER 2014
TIME: 2 HOURS

<u>**Instructions to Candidates:**</u>
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 **TWO** printed pages

Question One (Compulsory)

a) Briefly explain the following terms: **(8 marks)**
    (i) Information System Auditor
    (ii) Business Process Re-Engineering
    (iii) Enterprise Resource Planning
    (iv) Traditional Auditing

b) List and explain any TWO matters covered by the information system audit and control
Association's Code of Ethics   **(4 arks)**

c) Explain any FOUR fears that an enterprise may have when implementing ERP   **(4 marks)**

d) Discuss about the computer based information system and its components in detail   **(6 marks)**

e) Briefly discuss FOUR motivations for developing generalized software specifically for audit
purposes   **(4 marks)**

f) Distinguish between identification and Authentication and explain their relationship between the two. **(4 marks)**

Question Two

Read the following case study and answer the questions that follow:

CASE STUDY: MABATI ROLLING

Mabati Rolling Company engages in the manufacture of sever types of goods. It has branches all over the parts of Kenya. The company wished to centralize and consolidate the information flowing from its branches in a uniform manner across various levels of organization. The factories are already working on a legacy system using an intranet. But each factory and Branch is using a different software and a varied platforms, which different software and varied platforms, which do not communicate with each other. This not only results in huge inflow of data which could not be consolidated for analysis but also the duplication of data. Even one percent change in any data entry or analysis translated into millions and can sometimes wipe out the profits of the enterprise. So the company needs a system which would help them to be responsive and act fast.

a) List the problems that Mabati Rolling is facing **(4 marks)**

b) If the enterprise selects ERP solution, state and explain FOUR issues to be considered
(4 marks)

c) Suggest how to go about the implementation of ERP package **(6 marks)**

d) Explain any THREE techniques used to Assess Risk in an Enterprise **(6 marks)**

Question Three

a) Write notes to explain the controls used in information system Audit **(1 2marks)**
    (i) Operation Control
    (ii) Scheduling Control
    (iii) Maintenance Control

b) Explain the TWO major roles that auditors have in SDLC **(2 marks)**

c) You are an information technology officer in the Audit department, explain any THREE nature of offences that area common in the use of computer systems **(6 marks)**

Question Four

a) With a suitable diagram explain the system development life cycle **(10 marks)**

b) Explain FOUR major objectives of information systems auditing **(8 marks)**

c) List any TWO types of software used to audit compute system's operations **(2 marks)**

Question Five

a) Differentiate the following by explaining the following terms used in information system audit
(10 marks)

    (i) Emergency plan and Backup plan
    (ii) Hypothetical Testing and Component Testing
    (iii) BPR and Business Continuity Planning
    (iv) Mitigation Data Planning & Disaster Recovery Planning

(v) Operation Controls and Maintenance Control

b) Explain any FIVE roles of a system information auditor in an enterprise **(10 marks)**