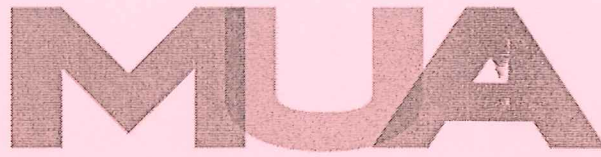


The
Management
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CERTIFICATE UNIVERSITY EXAMINATIONS
SCHOOL OF MANAGEMENT AND LEADERSHIP
CERTIFICATE IN BUSINESS INFORMATION TECHNOLOGY

CBT 104 : BASIC SYSTEM ANALYSIS AND DESIGN

DATE: 4TH APRIL 2022

DURATION: 2 HOURS

MAXIMUM MARKS: 70

INSTRUCTIONS:

1. Write your registration number on the answer booklet.
2. **DO NOT** write on this question paper.
3. This paper contains **SIX (6)** questions.
4. Question **ONE** is compulsory.
5. Answer any other **FOUR** questions.
6. Question **ONE** carries **30 MARKS** and the rest carry **10 MARKS** each.
7. Write all your answers in the Examination answer booklet provided.

QUESTION ONE

Read the Case Study below carefully and answer the questions that follow:

Kiza Group Limited

Kiza Group Limited is a private owned company that offers loans to private and registered companies in Kenya. The company headquarter is based in Nairobi central district center .The company has the more brunches in Kenya that is Nakuru, Mombasa and Kisumu.

The company has been offering its services for more than five years since it was incorporate to start business within Kenya. The company has more than a hundred employees who ensure that the company activities and operations run smoothly.

The company has been using manually created payroll to pay salaries to its employees .The general manager has requested use as the system analysis and design engineer to develop a new system that will generate payroll excel work book automatically .

The system should also have the capability to create a duplicate pay roll file which should be save automatically in the data recovery site and also the finance officers should be trained on how to use the new system.

Use the above study case to answer the following questions.

Required:

- a. Define the term System Analysis. (2 marks)
- b. Suggest three system models that you could use to develop the new payroll system. (6 marks)
- c. Explain three types of test that you would recommend before the implementation of the new system (6 marks)
- d. Conversion process took place during the integrating process. Explain three methods that could be used in conversion process. (6marks)

- e. Examine the three levels of information. (4 marks)
- f. Explain three classification of system Maintenance (6 marks)

Question two

- a. Explain the difference between system analysis and system design (2 marks)
- b. State and explain four elements of a good system (8 marks)

Question three

- a. Briefly differentiate between Adaptive and Non Adaptive System (4 marks)
- b. Illustrate three file organization techniques in an institution. (6marks)

Question four

- a. What is feasibility studies? (2 marks)
- b. State four importance of documentation during system development process (4 marks)
- c. Differentiate between Bottom-Up Strategy and Top-Down Strategy as used in system analysis and design (4 marks)

Question five

- a. Explain three types of form used in system design and development (6 marks)
- b. State four importance of having a taste plan before conducting in taste (4 marks)

Question six

Suggest any four conversion method that could be used in implementing a new system (4 marks)

Explain three levels of quality assurances as used in system analysis and design (6 marks)

