



KISII UNIVERSITY
UNIVERSITY EXAMINATIONS
FIRST YEAR EXAMINATION FOR THE AWARD OF THE DIPLOMA
IN INFORMATION TECHNOLOGY

SECOND SEMESTER 2023/2024
[JAN – APRIL, 2024]

DIT 0108: SYSTEM ANALYSIS AND DESIGN

STREAM: Y1 S2

TIME: 2 HOURS

DAY: TUESDAY, 9:00 - 11:00 A.M.

DATE: 22/04/2024

INSTRUCTIONS

- 1. Do not write anything on this question paper.***
- 2. Answer question ONE (Compulsory) and any other TWO questions.***

QUESTION ONE [25 MARKS]

- Briefly discuss four essential characteristics of a system [8 marks]
- List the FIVE steps followed when determining costs and benefits [5 marks]
- What is structured analysis? [2 marks]

QUESTION TWO [15 MARKS]

- Identify the eight steps involved in feasibility analysis [4 marks]
- What is the difference between technical feasibility and behavioral feasibility? [4 marks]
- What is the importance of feasibility study? [3 marks]
- Give four reasons why is it necessary to conduct cost/benefit analysis [4 marks]

QUESTION THREE [15 MARKS]

- What are differences between tangible costs and direct costs? [4 marks]
- Highlight five advantages of a data base system [5 marks]

c. Briefly discuss the different types of systems [6 marks]

QUESTION FOUR [15 MARKS]

- a. Differentiate the following major system models
- i. Schematic and flow [2 marks]
 - ii. Static and Dynamic [2 marks]
- b. To develop a good system, certain steps are followed. Briefly discuss the five stages of system development life cycle [10 marks]
- c. What is System Development Life Cycle? [1 mark]

QUESTION FIVE [15 MARKS]

- a. Systems are classified in four different ways, Explain four classifications [8 marks]
- b. Give FIVE reasons why is it difficult to determine user requirements. [5 marks]
- a. What is the purpose of preliminary investigation? [2 marks]