



Kasarani Campus  
Off Thika Road  
Tel. 2042692 / 3  
P.O. Box 49274, 00100  
NAIROBI  
Westlands Campus  
Pamstech House  
Woodvale Grove  
Tel. 4442212  
Fax: 4444175

**KIRIRI WOMENS' UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**UNIVERSITY EXAMINATION, 2022/2023 ACADEMIC YEAR**  
**FIRST YEAR, SECOND SEMESTER, END OF SEMESTER EXAM**  
**FOR THE DIPLOMA IN BUSINESS INFORMATION TECHNOLOGY**  
**DIT 1005- SYSTEMS ANALYSIS & DESIGN**

Date: 2<sup>ND</sup> AUGUST 2022  
Time: 11:30AM – 1:30PM

**INSTRUCTIONS TO CANDIDATES**

**ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS**

**QUESTION ONE (30 MARKS)**

- a) What do you understand by the term Information System? (2 Marks)
- b) Distinguish between system analysis and system design. (4 Marks)
- c) A system must have 3 main constrain. Discuss Constraints of a System. (4 Marks)
- d) Outline four factors you use to determine the success of an information system. (4 Marks)
- e) System analyst usually is confronted with problems during system analysis. Identify any three of such problems. (6 Marks)
- f) Briefly discuss the levels of management in an organization and give characteristics of the information requirements of each level. (10 Marks)

**QUESTION TWO (20 MARKS)**

- a) What is SDLC? (2 Marks)
- b) Describe the four principal stages in this process. (10 Marks)
- c) In detail discuss Attributes of a Systems Analyst. (8 Marks)

**QUESTION THREE (20 MARKS)**

- a) What is system changeover? Why is it important. (4 Marks)
- b) State and explain any three methods that can be employed during system changeover. (6 Marks)
- c) State and discuss properties of a system as used in system analysis and design. (10 Marks)

**QUESTION FOUR (20 MARKS)**

- a) State and Discuss Stages of System Testing. (8 Marks)
- b) In detailed discuss Types of Testing as stipulated in system quality assurance. (6 Marks)
- c) System analysis seeks to establish and justify a project undertaking on the basis of feasibility study components. Expound on such feasibility study components. (6 Marks)

**QUESTION FIVE (20 MARKS)**

- a) Discuss training methods as used in system implementations. (5 Marks)
- b) Briefly explain how the use of prototyping may lead to poor system documentation. (5 Marks)
- c) Discuss Features of Object-Oriented System. (10 Marks)