KIRIRI WOMEN'S UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATION, 2023/2024 ACADEMIC YEAR
FIRST YEAR, SECOND SEMESTER EXAMINATION
FOR THE DIPLOMA IN BUSINESS INFORMATION TECHNOLOGY
DIT 1005 – SYSTEM ANALYSIS AND DESIGN

Date: 15TH AUGUST 2023
Time: 11:30AM – 1:30PM

INSTRUCTIONS TO CANDIDATES
ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS

QUESTION ONE (30 MARKS)

a) The purpose of a feasibility study is to define the problem & to decide whether or not a new system is viable. State the types of feasibility study. (5 Marks)

b) Discuss the issues faced in CASE tools that makes it not popular (3 Marks)

c) Explain the difference between system and system theory (4 Marks)

d) System integrator must possess certain skills for efficient analysis of systems. Explain the skills required by system integrator (6 Marks)

e) Systems have components that make it. Describe the components that make a system in an organization (6 Marks)

f) Organizations have to select suitable software that can efficiently solve their problems. Outline and discuss the criteria for software selection (6 Marks)

QUESTION TWO (20 MARKS)

a) The purpose of system implementation is to translate the design documents into software product that can be used to carry out the intended processing tasks using the designated hardware & software environment. Explain activities undertaken during system implementation to enable the system architect to solve the organisation issues
(10 Marks)

b) In this era of technology, organizations are forced to computerize their daily operations. Explain the factors which forces organizations to computerize their operations (10 Marks)

QUESTION THREE (20 MARKS)

a) System Development Life Cycle (SDLC) involves stages that a system architect must traverse as he progresses from one stage to the other methodically answering questions and achieving results in each stage. Describe in general terms, the stages in logical process that are used by the system architect to build systems and solve business problems (15 Marks)

b) Documentation involves the preparation of documents that will be used to maintain the software and the user manuals. Briefly explain five major types of documentation created during the system development life cycle (5 Marks)

QUESTION FOUR (20 MARKS)

a) During software maintenance phase, system modification is made after the system is in operation. Explain types of software maintenance that ensure proper function of the system   (8 Marks)

b) System theory is a framework by which one can investigate and/or describe any group of objects that work together to produce some results. Explain the characteristics of system theory   (4 Marks)

c) Use hierarchical View diagram of Computer Base Information System to explain the various classifications of Computer Base Information System   (8 Marks)

QUESTION FIVE (20 MARKS)

a) The system selection process should be viewed as project, a project team should be formed with the help of management and it consists of several steps. Discuss the various steps to be followed
(10 Marks)

b) Identify and describe involved stakeholders and tasks they undertake in information communication technology project management   (10 Marks)