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KIRIRI WOMENS' UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATIONS, 2020/2021 ACADEMIC YEAR
FOR THE CERTIFICATE INFORMATION COMMUNICATION TECHNOLOGY
CIT 1005 - INTRODUCTION TO SYSTEM ANALYSIS AND DESIGN

Date: 14th December, 2020
Time: 8.30am -10.30am.

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS

QUESTION 1 COMPULSORY (30 MARKS)

- a) Describe the following terminology as used in system analysis and design: (10 Marks)
- i) System development life cycle
 - ii) Coding
 - iii) Central objectives
 - iv) Project management
 - v) Business analyst
- b) Describe data flow diagrams and their importance in System Analysis and Design (5 Marks)
- c) Highlight Five types of systems (5 Marks)
- d) Explain Three characteristics of a system (6 Marks)
- e) Explain Two factors that force organizations to automate their operations (4 Marks)

QUESTION TWO (20 MARKS)

- a) Describe waterfall design methodology used in system design (6 Marks)
- b) Explain Three skills required by system analyst (6 Marks)
- c) Discuss Four types of feasibility study (8 Marks)

QUESTION THREE (20 MARKS)

- a) Discuss Four major stages in system development (8 Marks)
- b) Describe Four information-gathering tools available for the analyst (8 Marks)
- c) Describe the role of Computer Assisted Software Engineering (CASE) tools in system development (4 Marks)

QUESTION FOUR (20 MARKS)

- a) Explain Three activities undertaken during system implementation (6 Marks)
- b) Describe Three characteristics of a system in system theory (6 Marks)
- c) Explain Four activities conducted during the analysis steps of SAD (8 Marks)

QUESTION FIVE (20 MARKS)

- a) Describe the life cycle of a system (6 Marks)
- b) Describe Four components of a system (6 Marks)
- c) Describe Four types of test performed on a in system. (8 Marks)