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**KIRIRI WOMENS' UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATIONS, 2021/2022 ACADEMIC YEAR
END OF SEMESTER EXAMINATIONS
FOR THE DIPLOMA IN BUSINESS INFORMATION TECHNOLOGY**

DBT 1004: BUSINESS INFORMATION SYSTEMS

Date: APRIL 2022
Time: 2 Hours.

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS

QUESTION ONE: COMPULSORY (30 MARKS)

- Define what is an information system? By use of a diagram, describe the basic components of an organization information system. (5 marks)
- Briefly explain how information systems have changed the way businesses operate and their products and services. (5 marks)
- State five objectives of management information system. (5 marks)
- Explain the characteristics of computer networks. (5 marks)
- Discuss different activities that system analysts and system designers have to undergo through during system development life cycle. (10 marks)

QUESTION TWO: (20 MARKS)

- Name and explain different components of a computer-based information system. (5 marks)
- Discuss the use of applications software in computers when performing various operations. (5 marks)
- Describe the disadvantages of waterfall model methodology when comes to system development. (10 marks)

QUESTION THREE: (20 MARKS)

- Explain how internet and WWW have changed the roles played by information systems in organizations. (5 marks)
- Use a diagram to describe the difference between daisy chain topology and ring topology. (5 marks)
- Internet technology has grown very fast in the society. Discuss. (10 marks)

QUESTION FOUR: (20 MARKS)

- a) Discuss various information system threats that may cause destruction and loss of data within the systems. (10 marks)
- b) By use of a well labeled diagram, elaborate on how prototype model methodology of system development works. (10 marks)

QUESTION FIVE: (20 MARKS)

- a) Discuss five major types of business information systems. (10 marks)
- b) Explain five effective security management of e-business systems that can minimize errors, fraud and losses in internet worked computer-based systems that interconnect today's e-business enterprises. (10 marks)