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KIRIRI WOMEN'S UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATION, 2023/2024 ACADEMIC YEAR
FIRST YEAR, FIRST SEMESTER EXAMINATION
FOR THE DIPLOMA IN BUSINESS INFORMATION TECHNOLOGY
DBT 1004 – BUSINESS INFORMATION SYSTEMS

Date: 13TH APRIL 2022
Time: 2:30PM – 4:30PM

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS

QUESTION ONE (30 MARKS)

- Differentiate between system software and application software. (2 Marks)
- Explain how internet and WWW have changed the roles played by information systems in organizations. (3 Marks)
- Explain the relevance of artificial intelligence and expert systems in our society. (5 Marks)
- Highlight the five hardware units of a computer system. (5 Marks)
- Briefly explain the general challenges of information systems in any organization (5 Marks)
- Explicate any five objectives of decision support systems. (5 Marks)
- List five components of a computer-based information system and explain the roles each plays. (5 Marks)

QUESTION TWO: (20 MARKS)

- Explicate some of the most common security techniques used to control computer-based information systems in an organization. (6 Marks)
- Briefly explain any six characteristics of a wide area network. (6 Marks)
- By use of a well labeled diagram to describe how parallel methodology of system development works. (8 Marks)

QUESTION THREE: (20 MARKS)

- Explain the factors that must be considered while selecting the internet service provider of your choice. (6 Marks)
- Define what is an information system? By use of a diagram, describe the basic components of an organizational information system. (6 Marks)
- Discuss different activities that system analysts and system designers have to undergo through during system development life cycle. (8 Marks)

QUESTION FOUR: (20 MARKS)

- Use diagrams to describe the difference between point to point topology and daisy chain topology. (6 Marks)
- Highlight and briefly describe six major types of business information systems. (6 Marks)
- Discuss reasons why most system designers prefer using prototype method of developing systems over waterfall model methodology. (8 Marks)

QUESTION FIVE: (20 MARKS)

- Elucidate the major applications of internet technology in the society. (6 Marks)
- Discuss various information system threats that may cause destruction and loss of data within the systems. (6 Marks)
- Explain the differences between management information systems and decision support systems. (8 Marks)