



(Knowledge for Development)

# **KIBABII UNIVERSITY**

## **(KIBU)**

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS**

**END OF SEMESTER EXAMINATION**

**2021/2022 ACADEMIC YEAR**

**FOURTH YEAR FIRST SEMESTER EXAMINATION**

**FOR THE DEGREE OF BACHELORS OF SCIENCE IN**

**(INFORMATION TECHNOLOGY)**

**COURSE CODE: BIT 414**

**COURSE TITLE: MANAGEMENT INFORMATION SYSTEM**

**DATE: <sup>19</sup>25/05/2022      TIME: 9.00 A.M. – 11.00 A.M.      2HRS**

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**INSTRUCTIONS TO CANDIDATES:**

**ANSWER QUESTION ONE AND ANY OTHER TWO.**

Paper Consists of 3 Printed Pages. Please Turn Over ➔

### QUESTION ONE (COMPULSORY) [30 MARKS]

- a. Differentiate between: [4 marks]
- i) Data and information
  - ii) Information system and information technology
- b. Normal operation of any organization require information in order to run. Thus, it has to be maintained in a secure state. State five goals of information security. [5 marks]
- c. Explain five ways in which information technology changes the nature of human resources? [5 marks]
- d. Majority of organizations prefer the decentralized organization structure over the centralized one. List reasons in favor decentralization. [5 marks]
- e. Given that an investment is expected to yield cash flows of £20,000 annually for the next 5 years and the initial cost of the investment is £40,000. Calculate the Accounting Rate of Return. [5 marks]
- f. Database management system allows for data independence. State reasons why data independence is useful in any organization. [6 marks]

### SECTION B: ANSWER ANY TWO QUESTIONS IN THIS SECTION

#### QUESTION TWO [20 MARKS]

- a. As a powerful tool, Information enables managers to make relevant decisions and help in the day-to-day operation of an organization. Explain the following types of information. [8 marks]
- i. Strategic information
  - ii. Tactical information
  - iii. Operational information
  - iv. Statutory information
- b. Using a well labeled diagram, describe the porter's five forces model and state how it is used to analyze the competitiveness of an organization [10 marks]
- c. Total Quality Management is a concept that makes quality control a responsibility to be shared by all people in an organization. Identify ways in which Information Systems Contribute to Total Quality Management. [2 marks]

**QUESTION THREE [20 MARKS]**

- a. Deliberate four functions of an information system. **[8 marks]**
- b. With the use of a well labeled diagram, discuss the six types of information systems. **[12 marks]**

**QUESTION FOUR [20 MARKS]**

- a. Limitations in the use of the file-based system prompted the adoption of a database system. Discuss five advantages that implementation of a database in an organization will bring forth. **[10 marks]**
- b. An information system is a combination of several components working together to achieve a required objective. Explain the controls that can be put in place for effective functioning of an information system. **[10 marks]**

**QUESTION FIVE [20 MARKS]**

- a. Using relevant examples, describe the three levels of management. **[6 marks]**
- b. Decision making in an organization is very important for any manager. Describe how you can go beyond fear of making a decisive decision **[4 marks]**
- c. Argue for and against the fact that Information Technology is a source of competitive advantage in organizations **[10 marks]**