



*(Knowledge for Development)*

**KIBABII UNIVERSITY**

**(KIBU)**

**UNIVERSITY EXAMINATIONS  
2017/2018 ACADEMIC YEAR**

**SUPPLIMENTARY EXAMINATIONS  
YEAR ONE SEMESTER ONE EXAMINATIONS**

**FOR DIPLOMA IN  
INFORMATION TECHNOLOGY**

**COURSE CODE : DIT 080  
COURSE TITLE : MANAGEMENT  
INFORMATION SYSTEMS**

**DATE: 17/10/2018 TIME: 3.00P.M. – 5.00P.M.**

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**INSTRUCTIONS TO CANDIDATES**

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

### QUESTION ONE (COMPULSARY) [24 MARKS]

- a. Differentiate between Information Systems and MIS? [4 marks]
- b. Describe four reasons why information systems are so important for business today? [4 marks]
- c. Information systems dimensions comprise the organizational, management and technology. Discuss these dimensions in details. [6 marks]
- d.
- i. What is an ERP system? [4 marks]
  - ii. Explain **ANY two** tools of an ERP system. [4 marks]
- e. Describe the three levels of the organizational hierarchy and the types of information systems that serve each level? [6 marks]

### QUESTION TWO [18 MARKS]

- a. Different organizations use different information systems in their daily operations. Justify giving relevant examples. [10 marks]
- b. Transaction Processing Systems (TPS) are the data lifeline of a company. If a company fails to capture a transaction it may lead not only to customer dissatisfaction and lost profit but also to serious penalties and lawsuits. Discuss the **six** steps required by a TPS to process a transaction. [6 marks]
- c. How do MIS differ from TPS? [2 marks]

### QUESTION THREE [18 MARKS]

- a. SDLC is a process followed a software project team, within an organization. It consists of a detailed plan describing how to develop, maintain, replace and alter or enhance specific software. The life cycle defines a methodology for improving the quality of software and the overall development process. Discuss five main stages of SDLC. [10 marks]
- b. Waterfall model is the earliest SDLC approach that was used for software development .The waterfall Model illustrates the software development process in a linear sequential flow; hence it is also referred to as a linear-sequential life cycle model. This means that any phase in the development process begins only if the previous phase is complete. Waterfall model phases do not overlap. Explain **ANY** four situations where the use of Waterfall model is the most appropriate. [8 marks]

### QUESTION FOUR [18 MARKS]

Databases are at the centre of most information systems in everyday use, therefore it is important that they are designed and built using appropriate methods to ensure that they meet users' requirements whilst being robust and maintainable.

- a. What is a database? [2 marks]
- b. What is the difference between the primary key and foreign key as used in databases: [4 marks]
- c. Explain briefly the steps you will use to develop a database for an organization. [6 marks]
- d. Advise an institution the need of using database management tools in keeping of data for their daily operations. [6 marks]

### **QUESTION FIVE [18 MARKS]**

Information systems advancement in technology raise new ethical questions because they create opportunities for intense social change and new kind of crime among others.

- a. What is ethics? **[2 marks]**
- b. Explain information System ethical analysis process. **[8 marks]**
- c. Suggest ways in which an organization can ensure ethics is maintained in the use of their information system. **[8marks]**