



10

[*Knowledge for Development*]

## **KIBABII UNIVERSITY**

[KIBU]

### **UNIVERSITY EXAMINATIONS 2016/2017 ACADEMIC YEAR**

#### **SPECIAL/SUPPLEMENTARY EXAMINATIONS YEAR THREE SEMESTER ONE EXAMINATIONS**

#### **BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY**

**COURSE CODE : BIT 313**

**COURSE TITLE : TRANSACTION**

**PROCESSING SYSTEMS**

**DATE: 12/09/2017 TIME: 11.30 A.M. – 1.30 P.M.**

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#### **INSTRUCTIONS TO CANDIDATES**

Answer Questions ONE and ANY OTHER TWO.

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

- a. What is a Transaction Processing System? [2 Marks]
- b. Discuss the components of a TPS? [6Marks]
- c. What do you mean by transaction in DBMS? [2 Marks]
- d. Outline any five Objectives of a TPS [5 Marks]
- e. Discuss the terms below as used in equivalence schedule [4Marks]
  - a. Result Equivalence
  - b. View Equivalence
- f. What is a Transactional Processing and the role of TP systems. State the key objective of TP/TPSs. [5 Marks]
- g. How do TP systems serve the various levels of management in a business. Describe the characteristics of transaction processing systems (TPS) and the roles they play in a business. [6 Marks]

### QUESTION TWO [20 MARKS]

- a. What is real-time processing system [2 Marks]
- b. Discuss what is a transaction processor? [4 Marks]
- c. Discuss the features that are considered important in evaluating transaction processing systems [10 Marks]
- d. Describe how the information systems function supports a business. [4 Marks]

### QUESTION THREE [20 MARKS]

- a. Differences between real-time and batch processing [8 Marks]
- b. Outline five features that are desirable in a database system used in transaction processing systems [5 Marks]
- c. State four benefits of TPS [4 Marks]
- d. List and describe four reasons why information systems are so important for business today? [3 Marks]

### QUESTION FOUR [20 MARKS]

- a. What is an information system [2 Marks]
- b. Using a diagram, discuss the different States of Transactions [8 Marks]
- c. Discuss the characteristics of transaction processing system [10 Marks]

### QUESTION FIVE [20 MARKS]

- a. Discuss the types of Transaction Processing Systems, how they work and give an example in each [10 Marks]
- b. Discuss the ACID Properties in TPS [10 Marks]