

UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR

SUPPLEMETARY/SPECIAL EXAMINATIONS YEAR THREE SEMESTER ONE EXAMINATIONS

BACHELOR OF SCIENCE IN INFORMATION **TECHNOLOGY**

COURSE CODE

BIT 313

[B]

COURSE TITLE

TRANSACTION PROCESSING SYSTEMS

DATE:

TIME: 11.30A.M. - 1.30P.M.

INSTRUCTIONS TO CANDIDATES

Answer Questions ONE and ANY OTHER TWO.

QUESTION ONE [COMPULSORY] [30MARKS]

QUESTION ONE [COMPULSORY] [30MARKS]	
a. What do you mean by transaction in DBMS?	[2 marks]
 b. Discuss the different types of Databases for transaction processing c. State four benefits of TPS d. Explain what is data validity and its procedure e. What are the five types of TPS in business organizations? What functions Give example of each. f. Two examples 	[6 marks] [4marks] [6 marks] do they perform?
1. Two operations are said to be conflicting if which conditions satisfied	[3marks]
g. What is the main distinguishing feature of a batch processing system?	[4 marks]
QUESTION TWO [20 MARKS]	
a. What is a Transaction Processing System?b. Explain the terms below as used in equivalence schedule	[2marks] [6marks]
I. Result Equivalence II. View Equivalence	
 c. TP systems serve the various levels of management in a business. Describe characteristics of transaction processing systems (TPS) and the roles they business. d. Using a diagram, discuss the different States of Transactions 	e the play in a [5 marks] [7 marks]
QUESTION THREE [20 MARKS]	
 a. What is real-time processing system b. Differences between real-time and batch processing c. Discuss the typical activity of a Transaction Processing System. 	[2 marks] [8 marks] [10marks]
QUESTION FOUR [20 MARKS]	
 a. What is a transaction processor? b. Web-Ticket allows customers to purchase tickets for major theatre and sportithe internet. When customers visit the company's website they can choose the seating arrangements, see what seats are available, choose their seats tickets. For the business to run successfully it is essential that the seating d to any customers at any time in any location, are correct and up-to-date. Ther for error or system failure. Describe and analyze the ticketing system in information processes of I. collecting II. storage and retrieval 	an event, view and purchase etails supplied
III. processing	8 marks]

c. Discuss the characteristics of transaction processing system

[10 marks]

QUESTION FIVE [20 MARKS]

- a. Discuss the ACID Properties in TPS
 b. Outline six features that are desirable in a database system used in transaction processing systems
- c. Discuss the types of Transaction Processing Systems, how they work and give an example in each [6 marks]