

## NATIONAL OPEN UNIVERSITY OF NIGERIA, PLOT 91 CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI – ABUJA FACULTY OF SCIENCES

## **JULY 2017 EXAMINATION**

COURSE CODE: CIT 427 COURSE CREDIT: 3

COURSE TITLE: DATABASE SYSTEMS AND MANAGEMENT\_

TIME ALLOWED: 3 Hours

INSTRUCTION: Answer question 1 and any other four (4) questions

## **QUESTIONS**

- 1a. Assuming you were employed as a Database Administrator in the IT unit of an establishment. Outline the precautionary steps you would adopt in specifying a system of file organisation for the records of this establishment. (6 marks)
- 1b. If Mallam Shehu banks with GTB and has ₱500, 000 in his account A304133991 at Wuse branch. Write down a tuple to insert this amount into his account in the specified branch.

(4 marks)

- 1c. Explain by means of a well-labelled diagram how one can access the weather information from a web- service. (8 marks)
- 1d. Name two (2) common components of an entity-relationship diagram, specifying their equivalent roles. (4 marks)

[Total = 22 marks]

- 2a. Give an overview of the factors that affect the core design considerations in database systems (6 marks)
- 2b. State how a key is executed in an indexed-sequential organisation. (4 marks)
- 2c. List any two (2) kinds of declarations in XML. (2 marks)

[Total = 12 marks]

3c. State the two (2) major components of file organisation (2 marks 3d. Give the full meaning of the acronym XML (2 marks 3e. What is the significance of the XML? (2 marks 1e. Marks 2f. Marks 3e. What is the significance of the XML? (2 marks 2f. Marks 3e. What is the significance of the XML? (2 marks 2f. Marks 3e. Management Systems (DBMS). List and explain the two (2) major modes of accessing information in this context. (6 marks 4b. Give a brief description of the concept of Latency (2 marks 4c. Name and state the uses of two (2) typical forms of magnetic disks. (4 marks 2f. Marks 3e. In line with the W3C recommendation, the XML specification establishes a number of goals for XML. In simple terms, write down any six (6) of these goals. (6 marks 5b. Name and state the main roles of six (6) typical kinds of markup that can occur in a XML document.	sa.	organisation.	exed-sequential file (4 marks)
3d. Give the full meaning of the acronym XML  (2 marks)  3e. What is the significance of the XML?  (2 marks)  [Total = 12 marks]  4a. Accessibility is a common feature in Database Management Systems (DBMS). List and explain the two (2) major modes of accessing information in this context.  (6 marks)  4b. Give a brief description of the concept of Latency  4c. Name and state the uses of two (2) typical forms of magnetic disks.  (4 marks)  [Total = 12 marks]  5a. In line with the W3C recommendation, the XML specification establishes a number of goals for XML. In simple terms, write down any six (6) of these goals.  (6 marks)  5b. Name and state the main roles of six (6) typical kinds of markup that can occur in a XML document.	3b.	Briefly describe the concept of file organisation within the conte	ext of a file system. (2 marks)
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6a. Give a brief explanation of three (3) common modes of data manipulation. (6 marks)	6a.	Give a brief explanation of three (3) common modes of data manip	oulation. (6 marks)
6b. State the two (2) main classes of data independence outlining two (2) features of each of these classes. (6 marks)	6b.		(2) features of each (6 marks)

[Total = 12 marks]