



NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS
SCHOOL OF SCIENCE & TECHNOLOGY
JANUARY/FEBRUARY 2013 EXAMINATION

Course Code: CIT 427 **Time:** 3hrs
Course Title: Database Systems and Management **Course**
Credit Unit: 3
Instruction: Answer any **five (5)** questions.

QUESTIONS

- 1a. In the context of database systems and management, give a concise description of web services.
(4 marks)
- 1b. By means of a well-labelled diagram, describe how weather information can be accessed by means of Web services.
(16 marks)

[Total =20

marks]

- 2a. Write down four (4) main elements of an entity-relationship diagram, identifying their corresponding roles.
(16 marks)
- 2b. Describe an empty element in the context of documents
(4 marks)
- 3a. Distinguish between a key constraint and a domain constraint.
(10 marks)
- 3b. State two (2) practical approaches for slotting data into a relation. (10 marks)

[Total =20
marks]

[Total =20
marks]

- 4a. State the three (3) main elements of an SQL expression.
(12 marks)
- 4b. Give four (4) reasons why the data definition language is vital in databases. (8 marks)

[Total =20
marks]

- 5a. Write the expression to find the names of all units in a bank relation, if a unit in the unit designated by u.
(12 marks)

5b. Identify and state the key role of a select clause.
(8 marks)

[Total =20 mark

6a. Enumerate five (5) internal entities of XML specification. (10 marks)

6b. Write two (2) main functions of the check clause. (10 marks)

**[Total =20
marks]**

7a. Data manipulation can be described based on four (4) different approaches, specify these approaches.
(16 marks)

7b. State the syntax for deletion in SQL.
(4 marks)

**[Total =20
marks]**