

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

CIT 843 -DATABASE MANAGEMENT SYSTEMS

Instruction: Answer Any Four Questions

Time Allowed: 2 Hours

1a.What is DBMS? 7 ½ marks

b.List five disadvantages of File Processing System.

5

marks c.State five advantages of DBMS.

5 marks

2a.Describe the three levels of data abstraction. b.What is data independence? Outline the two types. 9 marks 6 marks c.What is a view? 2 ½ marks

3a.Explain what is meant by:

normalization

functional dependency
b.Define SQL and state the primary difference between SQL and other conventional programming languages.

8 marks
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5 marks

c.What is 2NF?

4 ½ marks

4a.Outline the basic steps in designing a database application. 10 marks b.State how to ensure database security at design level. 7 $\frac{1}{2}$ mark **7** ½ marks

5a.Write SQL statement that grant authorization to database users shown in the table.12 marks

b.Write SQL statement that revoke authorization granted to Mr. Sola 5 ½ marks

Subjec t	Object	Actio n	Constraint
Rashe ed	Employee	Read	None
Rashe ed	Employee	Insert	None
Rashe ed	Employee	Modif y	None
Rashe ed	Employee	Delet e	None
Bola	Employee	Read	Salary < 50,000
Sola	PurchaseOr der	Insert	Total < 1,000
Sola	PurchaseOr der	Modif y	Total < 1,000
Chidi	Employee	Read	None

6.Explain the following SQL transaction terms: 5 marks

Lost update problem Dirty read

Non-repeatable read Phantom read

5 marks 3 marks 4 ½ marks