

National Open University of Nigeria 14/16 Ahmadu Bello Way, Victoria Island, Lagos.

School of Science and Technology October, 2013 Examination

Course Code: hrs	CIT 844	Time Allowed: 2½
Course Title:	Advanced Database Management System	
Course Unit:	2 Credits	
Total mark is 100 and each question carries 25 marks		
Answer 4 Questions.		
 1a. Explain what a Database is? (4 marks) 1b. List and explain any three (3) security measures used to protect database. (9 marks) 1c. Mention three (3) advantages of database (9 marks) 		
2a. What is an open source?marks)2b. List three advantages of open source software.marks)		(7
		(9
•	ny three network topology	(9
(i) Data (ii) Data (iii) Dat	t note on the following: a Integrity a Security a Privacy ks each)	(4
3b. Differentiate between a centralized and distributed database systems		
(8 mark 3c. Explain wh marks)	ss) nat encryption is?	(5
4a. What is a ⁻ marks)		(5
(i)OODE (ii) ORD (iii) GIG (iv) DDI (v)SDLC (vi) PC (vii) DB	MS	(2 mark each)
4c. Identify an (6 mark	y three database models (s)	
5a. What is SC)L?	(5 marks)

5c. List five (5) failures that could make the DBMS require recovery (10 marks)
6a. Explain what Relational Database is? (7 marks)
6b. Differentiate between Single User and Multiple User marks)
6d. Outline four (4) maintenance activities by the database administrator. (8 marks)

5b. List any five (5) operators and their description in SQL.

(10 marks)