

## NATIONAL OPEN UNIVERSITY OF NIGERIA 14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS SEPTEMBER/OCTOBER 2015 EXAMINATION

## SCHOOL OF SCIENCE AND TECHNOLOGY

COUR	RSE CODE:	CIT 427	
COUR	RSE TITLE:	<b>Database Systems and Management</b>	
	ALLOWED: 3 Hours RUCTION: Answer any five	(5) questions	
1a. Sta	te the three (3) main compone	ents of an SQL expression. (6 marks)	
1b. If a section in a shop is denoted by g, write the expression to find the names of all sections in that shop relation. (4 marks)			
1c. Giv	ve four (4) reasons why the da	ta definition language is vital in databases. (4 marks)  [Total = 14 marks]	
2a. Give a brief explanation of the following attributes:			
i. ii. iii.	Entity or Entities ID NMTOKEN or NMTOKENS	) ) (2 marks each, =6 marks) )	
	rite down the four (4) main co cresponding roles	mponents of an entity-relationship diagram with their (8 marks) [ <b>Total = 14 marks</b> ]	
3a. Sta i. ii. iii. iv. v.	te the main function and exan < > & ' "	aple of the following predefined internal entities:	
		(2 marks each, 2x5=10 marks)	

3b. Who is a database administrator?	(4 marks)
	[Total = 14 marks]
4a. By means of a well-labelled diagram, explain how weather informeans of Web services. (10 ma	-
4b. Describe where and how security is maintained in a database.	(4 marks) [ <b>Total = 14 marks</b> ]
5a. List and explain five duties of a database administrator.	(10 marks)
5b. Data manipulation can be described in four (4) different ways,	write down these ways. (4 marks) [Total = 14 marks]
6. Go through the code below carefully and answer the questions the	hat follow:
xml version="1.0"?	
<freshplay></freshplay>	
<burns>Say <quote>inakwana</quote>,</burns>	
Nasiru.	
<garki><quote>inakwana,</quote></garki>	
Nasiru.	
<applause></applause>	
<ul><li>6a. What sort of processing instruction is depicted above</li><li>6b. Specify the main role of this instruction</li><li>6c. Identify and write the empty element in this instruction</li></ul>	(4 marks) (6 marks) (4 marks) [ <b>Total = 14 marks</b> ]
7a. Write two (2) main functions of the check clause.	(5 marks)
7b. Distinguish between a domain constraint and a key constraint.	(5 marks)
7c. Specify two (2) modes of inserting data into a relation.	(4 marks)  [Total = 14 marks]