

NATIONAL OPEN UNIVERSITY OF NIGERIA, 14/16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS. SCHOOL OF SCIENCE AND TECHNOLOGY SEPTEMBER/OCTOBER 2016 EXAMINATION

COURSE CODE: CIT 427

TIME .	SE TITLE: Database Systems and Mana ALLOWED: 3 Hours		
INSTR	UCTION: Answer any five (5) question	S	
1a. Stat	e the three (3) main components of an SC	QL 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	e four (4) reasons why the data definition		abases. (4 marks) al = 14 marks]
2a. Giv	e a brief explanation of the following attı	ributes:	
ii.	Entity or Entities ID NMTOKEN or NMTOKENS)) (2 marks each,)	, =6 marks)
	te down the four (4) main components of responding roles	3)	iagram with their 3 marks) al = 14 marks]
3a. Stat i. ii. iii. iv. v.	e the main function and example of the f < > & ' "	ollowing predefined inte	rnal entities:
••	aquot	(2 marks each, 2x5=	10 marks)
3b. Who is a database administrator? (4 marks)			(4 marks)
		[Tota	al = 14 marks]

accessed by means of Web services. (10 marks) 4b. Describe where and how security is maintained in a database. (4 marks) [Total = 14 marks]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 that follow: <?xml version="1.0"?> <freshplay> <burns>Say <quote>inakwana</quote>, Nasiru.</burns> <garki><quote>inakwana, Nasiru.</quote></garki> <applause/> </freshplay> 6a. What sort of processing instruction is depicted above (4 marks) 6b. Specify the main role of this instruction (6 marks) 6c. Identify and write the empty element in this instruction (4 marks) [Total = 14 marks]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]

4a. By means of a well-labelled diagram, explain how weather information can be