



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

Course Title: DAM344: Semantic Data Modeling
Instruction: Attempt any four (4) questions
Credit Unit: 2
Time: 2 hrs

Question 1

- a) Compare and Contrast the Concept of;
- i) Identifier (5 marks)
 - ii) Modifier (5 marks)
 - iii) Descriptor (5 marks)
- b) What is Relational Model? (5 marks)

Question 2

Write briefly, with illustration, the basic WBT-Master architectural principles.
(20 marks)

Question 3

Write briefly on the following;

- i) Semantic Data Model Requirements (10 marks)
- ii) Applications of Semantic Data Models (10 marks)

Question 4

- a) Define Data Modeling (5 marks)
- b) According to Whitten, there are two types of data modeling:
- i) List these two types of Data modeling (2 marks each = 4 marks)
 - ii) Write short notes on these two types of Data modeling listed in question b(i) (5 marks)
 - iii) Write briefly on Data Modeling methods. (6 marks)

Question 5

Illustrate the Data Modeling Process.

(2 marks for each block diagram x 10 = 20 marks)

Question 6

- i) Illustrate the important Properties of Data
(1 mark for each property = 8 marks)
- ii) Write briefly any six (6) of these Properties of Data.

(2 mark for each x 6 = 12 marks)