



NATIONAL OPEN UNIVERSITY OF NIGERIA
SCHOOL OF SCIENCE AND TECHNOLOGY

DAM344: Semantic Data Modeling

Instruction: attempt any four (4) questions
Time: 2 hrs.

Question 1

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 2

Illustrate the Data Modeling Process.

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

Question 3

- 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)

Question 4

- a) Compare and Contrast the Concept of;**

- i) Identifier (5 marks)**
- ii) Modifier**
- iii) Descriptor**

- b) What is Relational Model? (5 marks)**

Question 5

Write briefly, with illustration, the basic WBT-Master architectural principles.

(20 marks)

Question 6

Write briefly on the following;

- i) Semantic Data Model Requirements**

(10 marks)

- ii) Applications of Semantic Data Models**

(10 marks)