NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
MARCH/APRIL 2016 EXAMINATION

SCHOOL OF SCIENCE AND TECHNOLOGY

COURSE CODE: **DAM462**
COURSE TITLE: **Agricultural Data Systems_**

TIME ALLOWED: **3 Hours**
INSTRUCTION: Answer any five (5) questions.

1. a.) Briefly highlight the major types of 'set of facts' about objects in which a database is perceived by its users. (6 Marks)
   b. With the decline in the price of crude oil and the need to diversify the economy, agriculture is set to be amongst the next big thing. Enumerate ten (10) major suggestions/recommendations for promoting the management of Agriculture and Database Development (10 Marks)

2. (a.) What is a database model? (1 ½ Marks) List any five Database models (2 ½ Marks)
   (b.) With the aid of a diagram alone, identify the phases/steps in the design process of a decision support system (10 marks)

3. (a.) What is An agricultural system (2 Marks)
   Enumerate four **major** general rules to observe when going to use radio or TV to disseminate information (4 Marks)
   (b.) List and briefly discuss the three major purposes/activities for which agricultural science and technology databases series can also be designed for (8 Marks)

4. a) List 6 important significances of IT in education. (5marks)

   b) Highlight and briefly discuss (not more than two sentences) the major aspects which should be taken into consideration for the further development of agricultural science and technology database. (8 Marks)

5. a) Define the term
   - "Information Technology". (2marks)
   - Database (1 Mark)

   b) Highlight the challenges related to sharing, exchanging and disseminating knowledge with the use of technologies (8 Marks)

   c) Highlight the different stages into which the development of agricultural science and technology database can be divided. (3marks)

6. a.) Explain briefly the following terms:
   i. Computer simulation models (2 marks)
   ii. Scale simulation models (2 marks)

   b.) List and discuss the construction model in developing a database (10 Marks)

7. a.) List and briefly explain any three (3) elements of a data model (6 marks)

   b.) Enumerate the requirements for a high level decision support system (8 marks)