



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**14/16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS**  
**SCHOOL OF SCIENCE AND TECHNOLOGY**  
**MARCH/APRIL 2014 EXAMINATION**

**COURSE CODE: DAM 462**

**COURSE TITLE: AGRICULTURAL DATA SYSTEMS**

**TIME ALLOWED: 2 ½ HOURS**

**INSTRUCTION: ANSWER ANY FOUR (5) QUESTIONS. EACH QUESTION CARRIES 14MARKS.**

1. Discuss the following ages of information technology (14 Marks)  
Premechanical  
Petroglyph  
Mechanical  
Difference Engines
2. (a.) Highlight the significance of information technology to society. (5marks)  
(b.) With the aid of a diagram, describe the proposed flow system for farm management. (5marks)  
(c.) Highlight 2 applications of Expert system technology in the agricultural sector. (4marks)
3. (a.) You have been asked by your line manager to write out the job description for your newly recruited IT professional. Present your list. (10 Marks)  
(b.) Outline the purposes of System Models as postulated by Schoemaker(1982). (4marks)
4. (a.) Define an Agricultural system. (2 Marks)  
(b.) Explain briefly the following terms:  
Computer simulation models (6 marks)  
Scale simulation models (6 marks)
5. (a.) List 5 important significances of IT in education. (6 marks)  
(b.) Your friend is considering creating a database for his farming system. What 4 points would you professionally advice him to look out for when planning this agricultural science and technology database. (8 Marks)
6. (a.) Define the term simulation model. (4 marks)  
(b.) With the aid of a diagram alone, identify the phases/steps in the design process of a decision support system (10 marks)
7. (a.) Define the term "Information Technology". (2marks)  
(b.) Define the following elements of a data model. (12 Marks)  
Existence Dependence

Time  
Uniqueness