



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

**COURSE CODE: DAM 462**  
**DATA SYSTEMS**

**COURSE TITLE: AGRICULTURAL**

**CREDIT UNIT: 2 CREDIT UNITS**

**TIME: 2 HOURS**

**INSTRUCTION: ANSWER ANY FOUR QUESTIONS IN ALL**

1.
  - a. Define the term, simulation model. (3.5 marks)
  - b. Explain briefly the following terms:
    - i. Computer simulation models (7 marks)
    - ii. Scale simulation models (7 marks)
2.
  - a. List and explain 5 significances of IT in education (10 marks).
  - b. With the use of examples, briefly discuss the 4 eras of digital computing (7.5 marks).
3.
  - a. List and explain briefly the 3 components of a design method (7.5 marks).
  - b. Discuss briefly the modular design method (10 marks).
4.
  - a. List and explain 4 agricultural database construction models (10 marks).
  - b. With the aid of a diagram, briefly discuss the 4 stages involved in the construction of agricultural database systems (7.5 marks).
5.
  - a. Briefly discuss the meaning and scope of decision support systems (10.5 marks).
  - b. List 4 requirements of a high level decision support system (7 marks).
- 6.

- a. With the aid of at least one example each, list and explain briefly 3 issues that motivate the need for better information to optimize agricultural systems. (7.5 marks)
- b. With the aid of a diagram alone, identify the phases/steps in the design process of a decision support system (10 marks)