



NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
SEPTEMBER/OCTOBER 2015 EXAMINATION
SCHOOL OF SCIENCE AND TECHNOLOGY

COURSE CODE:

DAM 462

COURSE TITLE:

Agricultural Data Systems

TIME ALLOWED: 3 Hours

INSTRUCTION: Answer any five (5) questions.

1. a.) Schoemaker (1982) identifies four purposes for systems models. Highlight them with brief explanations (6 Marks)
b.) Using a detailed diagram only, illustrate the workflow Decision Support System (DSS) (8 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 a Decision Support System (2 Marks)
(b.) Discuss the following elements of a data model. (12 Marks)
Existence
Dependence
Time
Uniqueness
4. List 5 important significances of IT in education. (5marks)
b) Define the following;
i) Sitemap ii) Simulation model iii) Expert System (9marks)
5. a) Define the term “Information Technology”. (2marks)
b) Discuss the challenges related to sharing, exchanging and dissemination of knowledge and technologies. (9marks)
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.) Using tables, highlight the differences and similarities between system design method and Object Oriented system design method (10 Marks)
7. a.) Highlight any six (6) major technical areas the major technical areas for selection when planning agricultural science and technology databases(6 marks)
b.) Enumerate the requirements for a high level decision support system (8 marks)