

FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI
DEPARTMENT OF ANIMAL SCIENCE AND TECHNOLOGY
FIRST SEMESTER EXAMINATION 2009/2010 SESSION
AGR 307 – ELEMENTS OF CROP AND ANIMAL PRODUCTION

INSTRUCTIONS: Answer five questions of your choice

PART ONE (ANIMAL PRODUCTION)

1. Despite the recent campaigns against the consumption of animal food products, the production and consumption of livestock food products have been on the increase worldwide. Discuss any five reasons responsible for this.
2. Describe in full the following terms as used in animal production
 - a. Brooding in poultry management
 - b. Creep feeding in swine production
 - c. Feedlot management in cattle production
 - d. Nomadic farming in Nigeria.
3. (a) Describe in a stepwise manner, the process of livestock (cattle) slaughter and dressing.
(b) State the importance of the following in the abattoir
 - i. lairage
 - ii. Stunning
 - iii. refrigeration/holding units

PART TWO: CROP PRODUCTION

4. (a) Using a named vegetable, discuss the major production steps necessary for the cultivation of the crop highlighting the
 - i. Propagation method
 - ii. Soil requirements
 - iii. Pre-planting and post planting requirements
 - iv. Major diseases and pests
 - v. Utilization
(b) Discuss the importance of the following and state examples
 - i. Staking
 - ii. Pruning
 - iii. Rouging
 - iv. Seed selection
 - v. Crop rotation
5. (a) Explain briefly the following in tuber crop production
 - i. Yam harvesting
 - ii. Propagation of cassava
 - iii. Economic importance of cocoyam
(b) A piece of land measuring 50m x 20m was set aside for the cultivation of yam in your locality. The recommended planting distance is 90cm x 90cm. Calculate
 - i. The plant population in the given area of land
 - ii. The equivalent plant population per hectare.
6. Discuss the development of agriculture to date in terms of
 - a) Farm tools
 - b) Cultural practices
 - c) Pest and disease control

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2008/2009 HARMATTAN SEMESTER EXAMINATIONS

AST 307: ELEMENTS OF ANIMAL AND CROP SCIENCES

INSTRUCTION: ANSWER ANY FIVE QUESTIONS, AT LEAST TWO (2) FROM EACH SECTION.

TIME ALLOWED: 3HRS.

SECTION A.

1a. The female reproductive tract of a named ruminant 1) ----- is made up of 2)-----, containing the eggs, 3)----- where fertilization takes place, 4) ----- where embryos resides and 5) ----- site of copulation.

b. Using a well labeled diagram outline the components of a testicle and their functions.

c. With the aid of a diagram, discuss egg formation in a chicken.

2a. Why is it uneconomical to feed ruminants with concentrate feeds?

b. Name the different types of ration you can give to chickens and their variabilities.

c. An 18% crude protein ration contains groundnut cake and maize. If the crude protein content of maize is 9% and that of groundnut cake is 45%, calculate the proportions of groundnut cake and maize in the diet.

3a. What is brooding and why is it important in poultry production.

b. List 5 stress factors that can affect the performance of poultry?

c. Outline the different management systems used in poultry production?

d. List the problems associated with faulty environment in poultry production?

SECTION B

4a. Using a named vegetable, discuss the major production steps necessary for the cultivation of the crop.

b. Discuss the importance of staking Telfairia occidentalis

- 5a. Name the soil types and discuss their importance to vegetable production?
b. Discuss the utilization of tomatoes relative to its nutrient content?

6a. Currently Nigerian Economy is sustained by the oil sector, yet the government is working to ensure that the economy is sustained by agriculture, why?

b. Outline five reasons why there is much hunger in our country even when more people engage in agricultural activities.

c. Write short note on

- i) Two farming systems
- ii) Two cropping systems.

7a. State clearly three good reasons why cultivation of tuber crops in recent time is receiving greater attention from Farmers and Researchers.

b. Explain briefly the following practices and their roles in crop production

- i) Double harvesting
- ii) Staking
- iii) Propagation
- iv) Land preparation.

8a. Discuss the cultivation of cassava (Manihot esculenta) in your agro ecological zone under the following headings:

- i) Propagation
- ii) Climatic requirement
- iii) Land preparation
- iv) Harvesting
- v) Storage and processing.