



UNIVERSITY OF EDUCATION, WINNEBA  
INSTITUTE FOR TEACHER EDUCATION AND  
CONTINUING PROFESSIONAL DEVELOPMENT  
(ITECPD)



END-OF-FIRST-SEMESTER EXAMINATIONS. JUNE, 2023

LEVEL 200

COURSE CODE: JBA 231

COURSE TITLE: HISTORICAL DEVELOPMENT, TOOLS AND MATERIALS  
IN AGRICULTURE

TIME ALLOWED: 2 HRS

STUDENT'S INDEX NUMBER:

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**GENERAL INSTRUCTIONS:**

- This paper is made up of ONE SECTION.
- The Section is made up of six essay type questions.
- Answer any FOUR questions in your answer booklet.
- Each question carries equal marks. You are expected to start each question on a new page.
- You are expected to hand over your answer booklet to the invigilator before you leave the examination hall.

**Instruction:** Answer any four (4) questions in the answer booklet provided.

1. a) i. Define self-provisioning farming. [2 marks]
- ii. State two advantages of self-provisioning farming. [2 marks]
- b) Name two products each of the following raw materials:
  - i. Cocoa beans
  - ii. Sugarcane
  - iii. Fruits
  - iv. Cane
  - v. Cotton
  - vi. Rubber
  - vii. Hide, Skin
  - viii. Animal Fat (lard)
  - ix. Blood
  - x. Palm Fruits

[10 marks]

- c) Enumerate **five** branches of agriculture and explain any **three** of them. [11 marks]
2. a) State the main use of the following tools as used in animal production:
- Band Elastrator
  - Drenching Gun
  - Hoover
  - Feeder
- b) i. Mention **five** properties of sandy soil that make them different from other soils. [4 marks]  
 ii. Enumerate **five** factors you will consider when applying fertilizer. [5 marks]
- c) Explain the term compound fertilizer. Describe **three** functions each of the **three** primary major components of compound fertilizer. [11 marks]
3. a) Name **five** effects of malnutrition on farm animals. [5 marks]  
 b) i. State **four** functions water plays in the life farm animals. [4 marks]  
 ii. Distinguish between an Agricultural chemical and a drug. [4 marks]
- c) i. Differentiate between a raised bed and a sunken bed. [4 marks]  
 ii. Classify the following ornamental plants (royal palm, mahogany, neem tree, whistling pine, traveler's tree, hibiscus, bata grass, milk bush, portulaca, madras thorn, pride of Barbados, Canna sp) under the headings below:

Heading	Ornamental Plant
Avenue trees	
Hedging plants	
Specimen plants	
Bedding plants	

- [8 marks]
4. a) i. List **four** characteristics of lawn grasses. [4 marks]  
 ii. Define colostrum and state **three** ways in which it is useful in animal production. [5 marks]
- b) i. Define the concept flushing and explain **four** reasons for flushing farm animals. [6 marks] *Surgery*  
 ii. Differentiate between open and closed castrations. [4 marks]
- c) Describe **three** ways by which fish can be preserved. [6 marks]
5. a) i. Enumerate **four** factors to consider when selecting a site for fish pond construction. [4 marks]

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- ii. State **four** qualities of a good hay. [4 marks]
- b) i. Give **four** advantages of chemical fertilisers in crop production. [4 marks]
- ii. Elaborate on the following methods of fertiliser application:
- α. ring method
  - β. broadcasting
  - γ. drilling [9 marks]
- c) Explain the term maintenance ration as used in animal husbandry. [4 marks]
6. a) i. What is brooding as used in poultry keeping. [2 marks]
- ii. Differentiate between budding and grafting. [4 marks]
- b. Describe the following branches of agriculture:
- i. Horticulture
  - ii. Agricultural Economics
  - iii. Veterinary medicine. [9 marks]
- c. Explain **five** ways by which agriculture contributes to the socio-economic development of Ghana. [10 marks]

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