



NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF AGRICULTURAL SCIENCES
KM 4 Kaduna - Zaria Expressway Riga Chikun Kaduna
2025_2 EXAMINATIONS

DEPARTMENT OF CROP AND SOIL SCIENCES

COURSE CODE: CRP 313

COURSE TITLE: PERMANENT CROP PRODUCTION

TOTAL CREDIT UNIT: 2 CU (TIME ALLOCATED 2 ½ HOURS)

Instruction: Answer Three Questions in all, including Question One which is Compulsory

QUESTION One

- a.) List any five products from growing oil palm tree
- b.) List any four products from Cocoa
- c.) What are the major products got from coconut?
- d.) Distinguish the African palm from the other palms.
- e.) Describe the types of African palm using the fruit qualities.
- f.) Describe the process of sprouting palm seeds for large nursery operations
- g.) Describe the climatic and edaphic factors required for the production of African palm.
- h.) Discuss coffee beans harvesting and how to improve on beans final quality.
- i.) What are the uses of coffee?

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QUESTION Two

- a.) Name four types of palms and mention three products got from each type
- b. What are the guidelines for selecting (i). Parent stock? (ii). budding stock?
- c. Briefly describe the mill processing of palm fruits.

QUESTION Three

- a. Distinguish between the four major/original species of citrus.
- b. Why is budding a very important operation in citrus production?
- c. Why is pest and disease control very essential in Citrus management?
- d. What is the best method of harvesting oranges and at what stage should the fruits be harvested?
- f. How do you effect uniform ripening in citrus?

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QUESTION Four

- a. What are the uses of citrus?
- b. Compare and contrast the nutritive value of raw juice and fresh citrus fruits.
- c. What are the agro-climatic and edaphic requirements for the cultivation of citrus?
- d. Enumerate and discuss the nursery and field operations in the management of citrus plantation.
- e. Discuss pest control measures and disease control measures in citrus orchards.
- f. Discuss the harvesting of citrus fruits in relation to the marketing of the fruits.
- g. Identify some of the uses of citrus and its bye products.