



NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF AGRICULTURAL SCIENCES
KM 4 Kaduna - Zaria Expressway Riga Chikun Kaduna
2023_1 POP EXAMINATION

DEPARTMENT OF CROP AND SOIL SCIENCES

COURSE CODE: CRP 313

COURSE TITLE: PERMANENT CROP PRODUCTION

TOTAL CREDIT UNIT: 2 CU

TIME: 2HRS

INSTRUCTION: Answer Question One Compulsorily and Any Other Two Questions.

QUESTION ONE

Write a short descriptive note on each of the following

- a). Weeding in plantation crops
- b). Fertilizer application methods and method of detecting nutrient deficiencies on permanent crops
- c). What constitute nursery operations in permanent crops
- d). shade management important in cocoa nursery
- e). Propping
- f). Factors to be consider in siting a plantation
- g). What constitutes field management operations in permanent crops
- h). Why is hardening off necessary in the final transplanting of seedlings to the field

QUESTION TWO

- a). List any five crops in the of permanent crop using their botanical names alone
- b). Discuss the economic importance of setting up a permanent crop plantation.
- c). What are the products derivable from cocoa beans

QUESTION THREE

- a). Describe nursery and field operations in coffee cultivation.
- b). Discuss coffee beans harvesting and how to improve on beans final quality.
- c). What are the uses of coffee?

QUESTION FOUR

- a). Describe the germination process in oil palm nuts
- b). Describe the pre-nursery and nursery operations in oil palm.
- c). Briefly describe the mill processing of palm fruits.