

NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF AGRICULTURAL SCIENCES DEPARTMENT OF CROP AND SOIL SCIENCES

EXAMINATION: SECOND SEMESTER POP EXAMINATION OCTOBER 2019_2

COURSE TITLE: PERMANENT CROP PRODUCTION

COURSE CODE: ACP 303
TOTAL SCORE: 70 MARKS
TIME ALLOWED: 2hours

INSTRUCTION: Answer FOUR Questions in all.

Question 1 is compulsory (25marks) and any three questions (15 marks each)

Question One

a) Identify the under listed crops with their botanical names. (10 marks) (i)Cacao (ii)Coffee (iii)Kola (iv)Rubber (v) Oil Palm

- (b) State the general economic importance of the listed tree crops (5marks)
- (c) List any five Specific products from Cocoa_(5mrks)
- (d) Briefly describe the method of primary processing of cola nitida or cola acuminata (5mrks)

Question Two

- a) List the procedure in selecting a site for establishment of a permanent/plantation crop field. (7 ½ marks)
- b) Write a short note on Soil factors that affect permanent crops establishment (7 ½ marks)

Question Three

Write a short explanatory note on each of the following

a) Weeding (b) Shading (c) Mulching (5 marks each x 3=15)

Question Four

- a) Identify any 2 diseases of cacao, and outline their causal agents and mode of transmission. (7marks)
- b) List any four insect Pests of permanent crops (4 marks)
- c) Provide the spacing recommended for (i) cacao (ii) coffee (iii) rubber (v) oil palm (4marks)

Question Five

- a) Enumerate any five simple tools used in the production of permanent crops. (5marks)
- b) Define weeding with reference to permanent crops. (5marks)
- c) Give reasons why processing is required in oil palm and (5marks)

Question Six

- a) Outline any three methods of fertiliser application on permanent tree field (6marks)
- b) List 3 methods of nutrient deficiency detection in field crops(3marks)
- c) List three types of pesticides. (3marks)
- d) List three pesticides used on plantation crops (3marks)