



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

EXAMINATION: 2022_2 POP EXAMINATION

COURSE TITLE: PERMANENT CROP PRODUCTION

COURSE CODE: CRP313

TOTAL SCORE: 70 MARKS

TIME ALLOWED: 2 hours

INSTRUCTION: Answer compulsory question 1 (30marks) and any Two questions (20 marks each)

Questions

Q1.

- a) List any Six permanent crops using both common and science names. (6marks)
- b) What is the economic importance of establishing tree crops? (4marks)
- c) List any five products from oil palm tree. (5marks)
- d)
 - i. Enumerate any five vegetative propagation methods (5 marks) and
 - ii. Explain asexual method of propagation and tabulate the advantage over the sexual method of propagation. (5marks)
- e) List any five research institutes charged with the mandate of working on permanent crops. (5marks)

Q2

- a) Enumerate any Five general Climatic conditions. (5marks)
- b) Describe the method of weeding in Oil palm plantation.(5marks)
- c) Provide the following information on oil palm establishment. (5marks)
- d) Soil type (ii) gradient (iii) soil dept (iv) Photo period (v) annual rainfall (vi) soil pH. (vii)Temperature. (5marks)

Q3

Write a descriptive note on each of the listed five farm operations

- i). Mulching (ii) Shading (iii) Weeding (iv)Pruning (v)Propping. (20marks)

Q4.

- a) List any five simple tools. (5marks)
- b) Briefly describe (i) Cocoa swollen virus disease (ii) black pod disease of cocoa. (10marks)
- c) (c) Highlight the essentials of cocoa processing. (5marks)