

NATIONAL OPEN UNIVERSITY OF NIGERIA
SCHOOL OF AGRICULTURAL SCIENCE
PERMANENT CROP PRODUCTION ACP 303 2018 January END OF
COURSE EXAMINATION.

- i) Answer at least one question from each section compulsorily.
- ii) Answer four questions in all.
- iii) Time allocated 2 ½ hours.

SECTION A

Question One

- a) Identify the under listed crops with their common names. (10 marks)
Thebromacaocao, coffee liberica or coffee rubusta, cola nitida or cola acumunata, Heveabrasilensis, Elias guinensis.
- (b) State the general economic importance of the listed tree crops (5marks)
- (c) Any five Specific products from oil palm tree (5marks)
- (d) Briefly describe the method of primary processing of *cola nitida or cola acumunata* (5marks)

Question two

write a short note of each of the provided information in below.

- a) Climatic Conditions.
 - b) Soil factors
- } to be considered in choosing a site for plantation crops. (7 ½ marks x 2= 15)

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 cocoa, and outline their causal agents and mode of transmission. (7marks)
- b) List any four insect Pests of permanent crops (4 marks)
- c) List four groups of pesticides. (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) Reasons (i) why processing is required in oil palm and (2marks)
- d) (ii) list 3 quality indices of oil palm (3marks)

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 six types of fertiliser. (6marks)