

NATIONAL OPEN UNIVERSITY OF NIGERIA 14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS SCHOOL OF SCIENCE AND TECHNOLOGY MAY/JUNE 2012 EXAMINATION

ACP303: PERMANENT CROP PRODUCTION MAY

TIME ALLOWED: 2 Hours

INSTRUCTION(S): ANSWER ANY FOUR QUESTIONS IN TWO HOURS

- Q1. a. Identify any five permanent crops using their comon names only
 - b. List any five products that can be obtained from Elaeis guinensis
 - c. Briefly discuss the economic importance of permanent crops
- Q2. Write a short note on of the following cultural practices
 (i) Felling (ii) weeding (iii) shading (iv) pruning (v) Mulching
- Q3. a. List any 3 types of fertilizers used in permanent crop production
 - b. List any 3 method of detecting nutrient deficiencies in permanent crops
 - c. List any 3 methods of applying fertilizers to permanent crops.
 - d. List any 3 nitrogen defficiency symptoms in threbroma caocao
 - e. List any 3 qualities of a good soil on which plantation crop can be established
- Q4. a. List any 3 organisms that can cause diseasea in plantation crops
 - b. List any3 classes of pest of plantation crops
 - c. List one fungi disease each of the following permanent crops. (i) Elaeis guinensis (ii) threbroma caocao (iii) Cola nitida
 - d. Name the specific class of pesticides/chemical used in the control of :
 - (i) weeds (ii) insect (iii) Mollusc (iv)mites (v)bacteria (vi)virus
- Q5. a)Discribe the climatic elements that plays significant roles in the choice of site to establish a plantation of permanent crops b) list any 5 qulity attribute of soil recommended for planting threbroma caocao
- Q6. a. (i) Name 2 tools that are good for harvesting threbroma caocao (ii) Give a reason why hand pullig to harvest the crop in ai is not recmmended
 - b. List any 2 methods of depulping Cola nitida

(iii) List any 2 hervest indices of oil palm fruit. c. What is the major Difference between *Cola nitida* and *Cola* acumunata