

NATIONAL OPEN UNIVERSITY OF NIGERIA 14-16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS SCHOOL OF SCIENCE AND TECHNOLOGY JANUARY/FEBRUARY 2013 EXAMINATION

CPT 514 (Post Harvest Handling and Storage)

INSTUCTION: ANSWER ANY FOUR QUESTIONS IN TWO HOURS

All Questions weighs 15 marks Total marks obtainable =60.

Question (1)

* List and describe any five climatic elements that affect plant growth and development.

Question (2)

- a) Define rainfall and list any other form of precipitation apart from rainfall.
- b) List any 3 functions of water in plant.
- c) List any 3 effect of excess of water in plants.

Question (3).

- a) Discuss post-harvest treatments to minimize loss and maximize quality of produce
- b). Describe the treatments for decay control
- c). Describe operations prior to packaging

Question (4)

- a) i) Describe primary,(ii) secondary and (iii) tertiary processing of crop product
- b) Explain traditional food fermentation in Nigeria vi)List any3 challenges of food processing in Nigeria Question (5)
- a) Describe the process of respiration and its effect on produce quality
- b) Explain the terms climacteric and non-climacteric fruits
- c) Enumerate the factors that impact on rates of respiration Question (6)
- a) Describe the problems encountered during storage of crop produce
- b) Briefly explain how canning as a method of shelf life extension
- c) Briefly explain how drying as a method of shelf-life extension
- d) Briefly explain how as a method of shelf-life extension
- e) Briefly explain how high pressure as a method of shelf-life extension