



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

EXAMINATION: 2021_1 POP EXAMINATION

COURSE CODE: CPT514

COURSE TITLE: PRODUCE /POST HARVEST MANAGEMENT

**INSTRUCTIONS: ANSWER THREE (3) QUESTIONS. QUESTION 1 IS COMPULSORY (30 marks)
AND ANY OTHER TWO (3) QUESTIONS (20 marks each)**

QUESTIONS

- 1 List five (5) climatic factors that affect maturity, ripening and senescence of crops (5 marks)
 - b. Mention two (2) groups of fruits based on their ripening pattern (5 marks)
 - c. What is the role of Light and Air in maturity, ripening and senescence of crops (10 marks)
 - d. Explain incisively, how photoperiod sensitive plants respond to maturity, ripening and senescence? (10 marks)
- 2 Highlight five (5) Edaphic factors that affect growth (directly or indirectly) and development of crops. (5 marks)
 - b. Discuss any two (2) mentioned above (10 marks)
 - c. State five (5) negative effects of excess Nitrogen in crop development (5 marks)
- 3 Define Maturation and explain the types of Maturity (10 marks)
 - b. Write short notes on the roles of the following plant nutrients
 - i. Phosphorus
 - ii. Potassium (10 marks)
- 4 Describe the role of calcium in relation to crop maturity, ripening and senescence (10 marks)
 - b. Differentiate between Light quality, Light intensity and Day length (5 marks)
 - c. What are climacteric crops? Give three examples of climacteric crops (5 marks)