



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**FACULTY OF AGRICULTURAL SCIENCES**  
**DEPARTMENT OF CROP AND SOIL SCIENCES**  
**2020\_2 EXAMINATION**

**COURSE TITLE: PRODUCE AND POST HARVEST MANAGEMENT (2CU)**

**COURSE CODE: CPT514**

**TOTAL SCORE: 70 MARKS**

**TIME ALLOWED: 2hours 30minutes**

**INSTRUCTIONS: Answer four questions in all. Question 1 is compulsory (25marks) and any three questions (15 marks each)**

Q1.

- a. In our understanding describe the relationship between rainfall and crop growth and development. (15marks)
- b. List five Specific examples of excess nitrogen negatively affecting crop quality include. (5marks)
- c. Outline 5 function of artificial waxing of produce. (5marks)

Q2.

- a. Briefly discuss the Treatments for decay control. (6marks)
- b. Enumerate the Factors affecting ripening of fruits and vegetables and explain any two. (9marks)

Q3

- a. Define Post-Harvest innovation (3marks)
- b. Outline the compositional factors and textural properties with examples of each of the corresponding maturity index. Give your answer in a tabular form. (12marks)

Q4.

- a. Explain how excess nitrogen application affects crop productions. (12marks)
- b. List any three Effects of the environment on food losses. (3marks)

Q5

- a. In Nigeria post-harvest losses in agriculture is a major problem, identify the available affordable technology to be used in order to reduce these loses. (12marks)
- b. State the needed operations before carrying out packaging of produce in post-harvest? (3marks)

Q6.

- a. Explain extensively any three factors that may compromise quality during transportation. (9marks)
- b. State the major considerations when selecting packaging materials suited to fresh produce. (6marks)

