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NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF AGRICULTURAL SCIENCES

KM 4 Kaduna - Zaria Expressway Riga Chikun Kaduna
DEPARTMENT OF CROP AND SOIL SCIENCES
2020 2 EXAMINATION

COURSE CODE: CRP 502

COURSE TITLE: PLANT GROWTH AND DEVELOPMENT

CREDIT UNIT: 2 CU

INSTRUCTIONS: Answer four questions in all. Question one is compulsory and it carries 25 marks. Any three is 15 marks each.

TIME ALLOWED: 2.30 hours

- 1) (a) Briefly describe the content of the embryo of a seed with reference to what happens to it during germination. (10 marks)
 - (b) State the environmental factors that affect flower induction and differentiation (10 marks)
 - (c) Mention the four factors that influence the Photosynthesis-Respiratory Model of plants. (5 marks)
- 2) (a) State only the three types of solar radiation (5 marks)
 - (b) List five instruments used to measure solar radiation. (10 marks)
- 3) (a) In what form is Nitrogen (N) available to plants. (5 marks)
- (b) Discuss the functions of Nitrogen in plants. (10 marks)
- 4) (a) Describe what happens at the plateau phase of the Sigmoid Growth Curve. (10 marks)
 - (b) What is the importance of the Sigmoid Growth Curve (5 marks)
- 5) (a) Describe the process of measuring fresh weight of plants. (5 marks)
 - (b) Describe the process of measuring dry weight of plants. (10 marks)
- 6) What are the roles of the under-listed plant organs
 - (a)Plant fruits (5 marks)
 - (b) Plant flower (5 marks)
 - (c) Plant stem (5 marks)