



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**FACULTY OF AGRICULTURAL SCIENCES**  
**DEPARTMENT OF CROP AND SOIL SCIENCES**  
*EXAMINATION 2021\_2*

**COURSE TITLE: CROP PHYSIOLOGY (2CU)**

**COURSE CODE: CRP 302**

**TOTAL SCORE: 70 MARKS**

**TIME ALLOWED: 2hours**

**INSTRUCTION:** *Answer THREE Questions in All. Question 1 is compulsory (30marks) and any two questions (20 marks each)*

**Time Allowed: 2hours.**

**Q1**

- a. What is crop physiology? **(5 marks)**
- b. Briefly justify the importance of crop physiology. **(10marks)**
- c. Define plant processes and give ten (10) examples. **(7 marks)**
- d. Explain the following terms  
i. Crop ii. Plant growth iii. Turgor pressure **(8 marks)**

**Q2**

- a. What do you understand by mineral nutrition? **(5 marks)**
- b. Differentiate between major and minor nutrient elements and give four (4) examples each. **(15 marks)**

**Q3**

- a. Explain the meaning of diffusion and osmosis. **(5marks)**
- b. List the different types of diffusion in plants and state their role in plants. **(15 marks)**

**Q4**

- a. Describe briefly two (2) different definition of plant cell. **(10marks)**
- b. Outline the different types of plant cell. **(10 marks)**