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

EXAMINATION: 2021_1 POP EXAMINATION 7856

COURSE TITLE: PRINCIPLES OF IRRIGATION AND DRAINAGE (2CU)

COURSE CODE: CRP 306 TOTAL SCORE: 70 MARKS

INSTRUCTION: Answer three Questions in All. Question 1 is compulsory (30marks) and any

two questions (20 marks each)

TIME ALLOWED: 2hours

OUESTION

Q1

- a. What is the meaning of Irrigation? State 5 importance of Irrigation. (10marks)
- b. State two ways in which radiation influences the rate of transpiration. (6marks)
- c. Briefly explain the role of plant in the soil-plant –atmosphere relationship. (14marks)

 $\mathbf{Q2}$

- a. Briefly discuss the critical growth stage of crops and highlight the stages of growth affected by irrigation. (10marks)
- b. With the aid of table, state the critical growth stages Growth of the following crops; sorghum, wheat, Maize, Cotton and bean. (10marks)

Q3

- a. Classify 5 crops based on crop water requirement with two examples each. (15marks)
- b. State the two types of irrigation requirement. (5marks)

Q4

- a. State 2 types of application and transportation losses. (3marks)
- b. Explain the term consumptive use and state and describe the three (3) types of consumptive use. (17marks)