



## NATIONAL OPEN UNIVERSITY OF NIGERIA

### FACULTY OF AGRICULTURAL SCIENCE

### DEPARTMENT OF CROP AND SOIL SCIENCES

**EXAMINATION: 2020\_1 POP EXAMINATION.**

**COURSE CODE: ACP301**

**COURSE TITLE: ARABLE CROP PRODUCTION (2CU)**

**INSTRUCTION: ANSWER QUESTION 1 AND ANY THREE QUESTIONS**

**TIME ALLOWED : 2:30 MINUTES**

#### QUESTION

1.

- a. (i) What is the botanical name (classification) for Sorghum. *(2 marks)*  
(ii) List any 2 varieties of Sorghum. *(2marks)*
- b. Discuss the establishment/cultivation of Sorghum *(6 marks)*
- c. (i) List 2 modification (morphological) that enables Sorghum dispense natural resistance to pests. *(2 marks)*  
(ii) List any 4 genetically acquired traits that enables Sorghum resist moisture stress and wind damage. *(4 marks)*
- d) Discuss the Deficiency symptoms of (i) Nitrogen (ii) phosphorus (iii) potassium in sorghum. *9 marks (3 for each)*

2.

- a. Give a general classification of millet by giving the common name, Genus, Species. *(3 marks)*
- b. Discuss the husbandry and cultivation of millet. *(6 marks)*
- c. List 3 pests and 2 diseases of millet. *(4 marks for pests) (2 marks for diseases)*

3.

- a. Give a general classification of rice by affording the Genus, species, Hausa, Igbo & Yoruba *(2 mark)*
- b. List any 3 varieties of rice each under

- (i) upland (3 marks)
- (ii) Shallow Swamp Variety (3 marks)
- (iii) Swamp varieties. (3 marks)
- c. Discuss the climatic and soil requirement of rice. (4 marks)

**4.**

- a. Describe cowpea by giving the (i) Genus, (ii) Species and 3 native names (Igbo, Hausa and Yoruba). (2 marks)
- b. Discuss the husbandry and establishment of cowpea. (5 marks)
- c. (i) Write a short note on the botany of cowpea. (6 marks)
- (ii) List any five varieties of cowpea (2 marks)

**5.**

- a. Describe groundnut by giving the Genus, Specie and 3 Local/Native names. (2 marks)
- b. (i) Write a short note on the botany of groundnut. (10 marks)
- (ii) List any Five (5) varieties of groundnut (3 marks)

**6.**

- a. Describe soybean by providing (i) Family name (ii) Genus (iii) Species (iv) the centre of origin (v) Protein content 5 marks
- b. Discuss the establishment and husbandry of soybean. (5 marks)
- c. List five products that can be obtained from soybean. (5 marks)