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Total No. of Pages : 02

Total No. of Questions : 09

B.Voc (Agriculture) (Sem.-2)

**SOIL CHEMISTRY, FERTILITY AND NUTRIENT MANAGEMENT**

Subject Code : BVAG-205-18

M.Code : 79599

Date of Examination : 12-07-22

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

**SECTION-A**

**1. Write briefly :**

- a) Complete complex fertilizers
- b) Macronutrients
- c) Nutrient toxicity
- d) Acid soil
- e) Slow release phosphatic fertilizers
- f) Secondary plant nutrients
- g) Sodium adsorption ratio
- h) Critical limit
- i) Muriate of potash
- j) Broadcasting

### SECTION-B

2. Give criteria of essentiality for different plant nutrients.
3. Explain the role of beneficial and essential plant nutrients for plant growth.
4. Discuss different chemical methods for reclamation of acidic soils.
5. Describe techniques to increase nutrient use efficiency.
6. How DRIS approach is beneficial for plant analysis?

### SECTION-C

7. How alkaline soils are formed? Explain methodologies for their reclamation.
8. Explain methods of soil testing. Give critical limit of N, P, K, Ca, Mg, S, Zn, Cu, Fe and Mn for soil.
9. Discuss effect of fertilizers and insecticides on soil.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**