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Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (Agriculture) (2014 & Onwards) (Sem.-3)

SOIL CHEMISTRY, FERTILITY AND NUTRIENT MANAGEMENT

Subject Code : BSAG-307

M.Code : 72557

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 short notes on the following :**

- a) Top dressing
- b) Role of Ca, Mg and S in plant growth
- c) Sodium adsorption ratio
- d) Critical limit
- e) Muriate of potash
- f) Incomplete complex fertilizers
- g) Macronutrients
- h) Nutrient deficiency
- i) Soil with $\text{pH} < 7$
- j) Bone meal fertilizers

SECTION-B

2. Discuss role of beneficial and essential plant nutrients for plant growth.
3. How DRIS approach is beneficial for plant analysis.
4. Discuss different chemical methods for reclamation of acidic soils.
5. Explain different techniques to increase nitrogen use efficiency.
6. Explain plant tissue tests for nutrients availability.

SECTION-C

7. Discuss salt affected soils and conditions under which these are formed.
8. Explain different approaches for soil fertility evaluation.
9. Describe fertilizer recommendations of N, P and K fertilizers for some important oil seed crops grown under irrigated conditions.

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.