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Total No. of Questions: 09

B.Sc. (Agriculture) (2014 to 2018) (Sem.-3)

SOIL CHEMISTRY, FERTILITY AND NUTRIENT MANAGEMENT

Subject Code: BSAG-307 M.Code: 72557

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

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

SECTION-A

"IstRanker com 1. Write short notes on the following:

- (a) Essential plant nutrients
- (b) Sodic soils
- (c) Hidden hunger
- (d) Calcareous soils
- (e) Neem coated N fertilizers
- (f) Soil test for fertilizers application
- (g) Broadcasting
- (h) Indicator plant
- (i) Role of boron and molybdenum for plants
- (j) Nutrient deficiency



SECTION-B

- 2. Discuss measures to overcome deficiency and toxicity of nutrients in plant and soil.
- 3. Explain chemical and biological methods for reclamation of salt affected soils.
- 4. Explain RSC (residual sodium carbonate) and ESP (exchangeable sodium percentage).
- 5. How soil is considered as store house for plant nutrients?
- 6. Differentiate between mineralization and immobilization.

SECTION-C

- 7. Describe and explain different methods of soil testing. Give critical limit of Ca, Mg, S, Zn, Cu, Fe and Mn for soil.
- 8. Discuss effect of fertilizers and insecticides on nutrient availability and soil health.
- 9. How alkaline soils are formed? Explain methodologies for their reclamation.

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.

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