

Roll No.

Total No. of Pages : 02

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

SOIL CHEMISTRY, FERTILITY AND NUTRIENT MANAGEMENT

Subject Code : BVAG-205-18

M.Code : 79599

Date of Examination : 24-12-2022

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) Essential plant nutrients
- (b) Saline soils
- (c) Hidden hunger
- (d) Residual sodium carbonate
- (e) Slow release N fertilizers
- (f) Indicator plant
- (g) Tissue test
- (h) Top dressing
- (i) Micronutrients
- (j) Nutrient deficiency

SECTION-B

2. Discuss measures to overcome deficiency and toxicity of nutrients in plant and soil.
3. How soil is considered as source for plant nutrients?
4. Give criteria of essentiality for different plant nutrients.
5. Explain chemical and biological methods for reclamation of salt affected soils.
6. Describe mechanism of nutrient transport in plants.

SECTION-C

7. Describe recommendations of N, P, K and Zn fertilizers for rice, wheat and maize crops grown under irrigated and rainfed conditions.
8. Discuss acidic soils, conditions under which these are formed and their reclamation measures.
9. Explain different approaches for soil fertility evaluation.

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.