Roll No. | | | | | | | | | | | | Total No. of Pages : 02

Total No. of Questions : 18

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 :

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

Write short notes on the following :

Q1. Incomplete complex fertilizers

Q2. Macronutrients

Q3. Nutrient deficiency

Q4. Soil with pH < 7

Q5. Bone meal fertilizers

Q6. Top dressing

Q7. Role of Ca, Mg and S in plant growth

Q8. Sodium adsorption ratio

Q9. Critical limit

Q10. Muriate of potash

SECTION-B

Q11. Discuss different chemical methods for reclamation of acidic soils.

Q12. Explain different techniques to increase nitrogen use efficiency.

Q13. Explain plant tissue tests for nutrients availability.

Q14. Discuss role of beneficial and essential plant nutrients for plant growth.

Q15. How DRIS approach is beneficial for plant analysis.

SECTION-C

Q16. Explain different approaches for soil fertility evaluation.

Q17. Describe fertilizer recommendations of N, P and K fertilizers for some important oil seed crops grown under irrigated conditions.

Q18. Discuss salt affected soils and conditions under which these are formed.

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.