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

SOIL CHEMISTRY, FERTILITY AND NUTRIENT MANAGEMENT

Subject Code : BSAG-307

Paper ID : [72557]

Max. Marks : 60

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

Q1 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

- Q2 Discuss role of beneficial and essential plant nutrients for plant growth.
- Q3 How DRIS approach is beneficial for plant analysis?
- Q4 Discuss different chemical methods for reclamation of acidic soils.
- Q5 Explain different techniques to increase nitrogen use efficiency.
- Q6 Explain plant tissue tests for nutrients availability.

SECTION-C

- Q7 Discuss salt affected soils and conditions under which these are formed.
- Q8 Explain different approaches for soil fertility evaluation.
- Q9 Describe fertilizer recommendations of N, P and K fertilizers for some important oil seed crops grown under irrigated conditions.