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Total No. of Pages: 02

Total No. of Questions: 09

B.Sc.(Agriculture) (2014 & Onwards) (Sem. – 1)

SOIL SCIENCE-I

M Code: 72211

Subject Code: BSAG-104

Paper ID: [A3293]

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) Pedon
- b) Soil Crusting
- c) Percolation
- d) Ion Absorption
- e) Dry Bulk Density
- f) Cation Exchange Capacity
- g) Soil Micelle
- h) Loamy Sand Soil
- i) Soil Structure
- j) Mineralization

SECTION B

2. Differentiate between soil moisture regime and thermal regime.
3. Write sources of negative charges on clay minerals.
4. Explain influence of soil temperature on plant growth.
5. Explain the composition of earth crust with the help of diagram.
6. Explain why soils are reusable resources.

SECTION C

7. Define Rock. Give detailed classification of rocks.
8. Explain various methods for determination of soil moisture.
9. What is humus? Explain why C:N ratio of the material, to be added to soil, is so important.