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

SOIL SCIENCE-I

Subject Code: BSAG-104 M.Code: 72211

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 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

www.FirstRanker.com Write short notes on the following:

- Salinization
- Anion exchange Capacity
- Bulk density
- d. Percolation
- e. Drainage
- f. Leaching
- g. Micelle
- h. Alluvium
- Laterization
- Bed rock



SECTION-B

- Write the source of negative charge on silicate clay minerals.
- Explain the composition of earth crust with the help of diagram.
- Bulk density and particle density of a field were reported as 1.65 and 2.80 respectively. Calculate the percent porosity of soil.
- Derive a relation among bulk density, particle density and porosity.
- Enlist processes of soil formation and discuss role of any one in detail.

SECTION-C

- Define a Rock. Discuss the conditions under which different rocks are formed.
- Derive mathematically Darcy's law showing movement of water under submerged conditions.
- Discuss the conditions under which saline and sodic soils are formed. Also explain in detail about 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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