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# B.Sc. Agriculture (2014 & Onwards) (Sem.-7) SOIL PHYSICAL AND BIOLOGICAL ENVIRONMENT

Subject Code: BSAG-CS-701 M.Code: 74828

Time: 3 Hrs. Max. Marks: 60

### INSTRUCTIONS TO CANDIDATES:

- 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.
- 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 :
  - (a) Aggregation
  - (b) Particle density
  - (c) Erosion
  - (d) Soil consistence
  - (e) Redistribution of water
  - (f) Soil micro organism
  - (g) Sulphur transformation in soil
  - (h) Iluviation
  - Soil aeration
  - (j) Soil texture



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## SECTION-B

- Discuss infiltration and redistribution of water in soil.
- Discuss in detail the soil thermal regimes of humid and arid regions.
- Explain different processes which affect soil temperature
- Enlist factors of soil formation and discuss role on any one in detail.
- Explain management techniques to check soil erosion.

# SECTION-C

- Discuss microbial transformation of carbon and nitrogen in soils.
- Derive mathematically Darcy's law showing movement of water under unsubmerged conditions.
- 9. Classify soil organism and explain their role in soil with reference to plant growth.

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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