

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 18

B.Voc.(Agriculture) (2018 & Onwards) (Sem.-1)

SOIL SCIENCE

Subject Code : BVAG-105-18

M.Code : 75653

Time : 3 Hrs.

Max. Marks : 30

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying ONE mark each.
2. SECTION-B contains FIVE questions carrying TWO AND A HALF marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying FIVE marks each and students have to attempt any TWO questions.

SECTION-A

Write short notes on :

- Q1. Air porosity
- Q2. Microscopic and capillary water
- Q3. Salinization and water logging
- Q4. Percolation
- Q5. Soil colloids
- Q6. Soil organisms
- Q7. Soil texture and soil structure
- Q8. Immobilization
- Q9. Penetrometer
- Q10. Mineral matter and organic matter

SECTION-B

- Q11. Explain the concept of hardsetting in soils; give the problems associated with this phenomenon.
- Q12. Discuss the role of soil temperature and air on plant growth.
- Q13. Write a short note on reclamation of saline and alkaline soil.
- Q14. Discuss briefly how sedimentary rocks are formed?
- Q15. Discuss in details the effect of organic matter on soil properties.

SECTION-C

- Q16. Discuss the influence of various structural types on soil properties such as aeration and drainage among others.
- Q17. a) Give examples of any five colloidal materials present in the soil.
b) In each case, highlight the influence of the colloidal material on soil properties.
- Q18. Define Anion and Cation Exchange Capacity. Discuss the factors affecting AEC and CEC.

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.