

Roll No.

[illegible]

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (Hons) Agriculture (Sem.-1)
FUNDAMENTALS OF SOIL SCIENCE

Subject Code : BSAG-102-19

M.Code : 76925

Date of Examination: 12-01-2023

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 briefly :
 - a. Soil air
 - b. Soil pollution
 - c. Micelle
 - d. Alluvium
 - e. Laterization
 - f. Salinization
 - g. Parent material
 - h. Anion exchange Capacity
 - i. Soil consistence
 - j. Leaching.

SECTION-B

2. Discuss formation of acidic soils and their reclamation.
3. Explain reasons of negative charges on clay minerals.
4. Compare USDA and ISSS particle size for textural classes.
5. Enlist factors of soil formation and any two in detail.
6. Discuss soil pollution fertilizers and its preventive measures.

SECTION-C

7. Explain the role of pesticides in soil pollution.
8. Discuss the conditions under which saline and sodic soils are formed. Also explain in detail about their reclamation.
9. Describe the role of macro and micro organisms in maintaining soil fertility.

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.