

210199150004. A

B.Sc. (Forestry)-1<sup>st</sup> Semester, Examination-(2019-20)

Fundamentals of Geology and Soil Science

S-1122

Time: Three Hours

MM: 35

Section A

Note: Attempt all questions. Each question carries 1 mark.

Fill in the blanks:

1. Geostationary Satellite is .....
2. Munsell colour chart is used for.....
3. Types of Soil water are
  - i. ....
  - ii. ....
  - iii. ....
  - iv. ....
4. Weathering is.....
5. The name of the mineral represented by  $\text{SiO}_2$  is.....

Write True (T) or False (F):

6. Physical Weathering factor is Pressure. T/F
7. pH of alkaline Soil is 6.5. T/F
8. Orthoclase is represented by  $\text{KAlSi}_3\text{O}_8$ . T/F
9. BOD is Biological Oxygen Demand. T/F
10. BOD is always greater than COD. T/F

Section B

Note: Attempt any five questions. Each question carries 2 marks.

11. What are the differences between Permeability and Porosity?
12. Write about Aerial Photography.
13. Write about definition and types of Soil Survey.
14. Write a short note on Soil Organic Matter decomposition.
15. Explain composition of Earth's crust with example.
16. Write about different problem Soils.
17. Write about Soil profile with proper figure.

Section C

Note: Attempt any three questions. Each question carries 5 marks.

18. What is Water Quality Parameter? Explain the types of Water Quality Parameters with proper example.
19. Write about different factors of weathering.
20. Write about land capability classification.
21. Write about Bulk Density. What are the factors influence it?
22. What is Rock? Explain type of Rocks with suitable example.