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B.Sc (Forestry) (First Semester) Examination

(Chemistry and Fertility of Forest Soils)

S-1129

Time: 3hrs

[Max Marks: 35]

Section-A

(Objective Type Questions)

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

Fill in the blanks

1. The arrangement of secondary and primary soil particle is called.....
2. Denitrification isprocess.
3. The study of Soil is known as.....
4. The C horizon is also called.....
5. The conversion of soil nitrate into gaseous Nitrogen or Nitrous Oxide is known as.....

True/false

6. In sandy soils, water infiltration is more rapid.
7. Zinc is a micro nutrient.
8. The micorrhizae is endorhizosphere.
9. Weathered products of rocks and rock minerals are called as parent material.
10. Fungi are chemoautotrophs.

Section-B

(Short Answer Type Questions)

Note: Attempt *any five* questions. Each question Carries 2 marks.

11. Define Biofertilizers.
12. Differentiate between physical and chemical weathering.
13. Write about the physical properties of soil.
14. Define- Nitrification and Denitrification.
15. Discuss carbon cycle with an example.
16. Soil fertility and productivity
17. Define macronutrients and micronutrients with an example.

Section-C
(Long Answer Type Questions)

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Note: Attempt *any three* questions. Each question Carries 5 marks.

18. Discuss carbon cycle with reference to organic matter decomposition and humus formation.
19. What is soil profile? Discuss in details with a suitable diagram.
20. What are biofertilizers? Write down the role, importance and benefits of biofertilizers.
21. Write in details about the land use classification.
22. What do you understand by the weathering of rocks and minerals? Explain the role of biological agents in accelerating the weathering.