K26FY1233 Pages: 2 Reg No:.....
Name:.....

Second Semester FYUGP Degree (Reg) Examination April 2026

KU2DSCFOR105 - PRINCIPLES AND PRACTICES OF SILVICULTURE

2024 Admission onwards

Time : 1.5 hours Maximum Marks : 50

Section A

Answer any 6 questions. Each carry 2 marks.

1. List any three kinds of pits
2. What is meant by transplanting in tree planting?
3. What is the clear felling system in silviculture?
4. Describe the shelterwood system and its main stages.
5. Compare natural regeneration and artificial regeneration. Which one you prefer for regeneration of forest? Why?
6. What are the main methods of artificial regeneration?
7. How can silviculture practices be integrated with wildlife management in a forest ecosystem?
8. Explain how leaf shape and arrangement are used to differentiate between deciduous and evergreen tree species?

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Section B

Answer any 4 questions. Each carry 6 marks.

9. Describe the role of animals and birds in seed dispersal and regeneration.
10. How do human activities impact the natural process of regeneration?
11. Explain the role of artificial regeneration techniques in the ecosystem restoration
12. How can silvicultural practices enhance soil and water conservation?
13. How does slope direction affect sunlight exposure and forest vegetation?
14. Evaluate the role of tree bark in distinguishing between species and in providing ecological functions in forests.

Section C

Answer any 1 questions. Each carry 14 marks.

15. Compare and contrast the use of round pits versus square pits in tree planting what are the advantages of each and in what conditions would you choose one over the othe?r

16. Imagine you are tasked with implementing a group selection system in a forested area that has been heavily impacted by logging. How would you design a plan that ensures both the recovery of the forest and the sustainability of the timber industry?

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