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B. Sc. (Forestry)-3<sup>rd</sup> Semester, Examination-(2019-20)  
Paper -V

Forest Mensuration

S-1134

Time: Three Hours

Section - A

MM: 35

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

Fill in the blanks.

1. Point Sampling can be either Horizontal or.....
2. The ratio between the mid-diameter and the D.B.H is called.....
3. Stump analysis and increment boring gives only .....increment.
4. On sloping land, the diameter at BH of a tree should be measured on the .....side.
5. ....is a Satellite based navigation system that provides continuous, real-time, Navigation and timing Worldwide.

Write True (T) or False (F).

6. Huber's formula underestimates the Volume. T/F
7. Volume tables give exact volume of an individual tree. T/F
8. In Multi-stage sampling, sampling units are taken out in two or more stages. T/F
9. Tapering decreases if trees are growing in complete isolation or exposed situations. T/F
10. Trees growing in largest density are subjected to lesser wind pressure and have long and nearly cylindrical boles. T/F

Section - B

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

11. Define artificial Form Factor?
12. Write down the Formulae for Mean Basal Area?
13. Define Form Point and Form Point Ratio?
14. Enlist the different methods of Height measurements.
15. Write down the scope of Sampling?
16. Define increment boring and what are its objectives?
17. Write down the Prismoidal and Newton's formula for cone form of solid?

Section - C

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

18. Discuss and write down the Biomass estimation by destructive Sampling method.
19. Explain the classification of Volume Tables and describe in detail Volume Tables based on two variables?
20. Describe Non-Random Sampling and write down in detail the different kinds of Non-Random Sampling?
21. Explain Remote Sensing and its advantages. Write down in detail the application of Remote Sensing in Forestry.
22. Distinguish and analyze objectives and advantages of Stem Analysis and Stump Analysis?