B.Sc. 3rd Semester (Honour's) Examination- 2021
FORESTRY

Course ID: **33507**   Course Code: **SH/FST/SA 2105**

Course Title: Forest Mensuration

Time: 2 Hours   Full Marks: 50

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

I.   Write a definition or one sentence answer any 10 of the following   1x10=10
1. Forest mensuration
2. 150 centimetres =……………foot (fill in the blanks)
3. Calliper
4. Bole height
5. C.B.H
6. Girth class
7. What is Crown?
8. Buttress formation of tree
9. Tape
10. How to calculate the basal area of ellipse.
11. Crown length
12. Stump height
13. Form factor
14. 5 hactares =..........Acres (fill in the blanks)
15. CAI Stands for……………………

II.   Write short note/ define any 10 of the following   2x10 =20

1.   Disadvantages of tape
2.   Objectives of forest mensuration
3.   Importance of breast height for diameter and girth measurement.
4.   Artificial form factor
5.   Basal area
6.   Ocular estimation for tree height measurement
7.   Normal form factor
8.   Crown cover
9.   Total Increment

10. Prismoidal formula for Neiloid Volume (for measurement of full solid)
11. Instrumental error.
12. Uses of form factor
13. Smalian's formula for paraboloid Volume (for measurement of a frustum of solid)
14. How to calculate volume of a standing tree
15. Write down the two rules followed during use of wooden scale

III.   Write down in brief any four (4) of the following   5x4=20

   1. Write down the importance of Forest Mensuration?
   2. Relation Between C.A.I and M.A.I
   3. Write down in brief about Form factor
   4. Explain the geometric principle of similar Triangles and Single pole method
   5. Advantages and Disadvantages of callipers
   6. Discuss the rules governing during breast height measurements