

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

Course ID: 33502

Course Code: **SH/FST/ NR 2105**

Course Title: Forest Survey & Engineering

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. Contour
 2. Accuracy
 3. Forest survey
 4. Arrows
 5. Pegs
 6. Precision
 7. True meridian
 8. Back bearing
 9. Ranging rod
 10. SOI stands for
 11. Gunter's chain
 12. Base line
 13. Plane table survey
 14. Chain survey
 15. Size of bricks
- II. Write short note/ define any 10 of the following 2x10 =20
1. Write down the main characters of river sand
 2. Listing the materials used as substitutes of sand.
 3. Bulking
 4. Surkhi
 5. Cement
 6. Properties of cement
 7. Forest guest house
 8. Types of cement
 9. Theodolite
 10. Plain scale
 11. Chain and its types

12. Define Retaining walls
13. Define breast wall
14. Igneous rocks
15. Forest road

III. Write down in brief any four (4) of the following

5x4=20

1. Write in detail about contouring and its characteristics
2. Draw a well labeled Prismatic compass diagram and write down some uses.
3. Important criteria of Site selection for forest guest house construction
4. How plane table survey is use full for forest mapping
5. Describe in detail about compass surveying
6. Point out the principle followed for site selection of temporary and permanent bridge construction.