



PG (CBCS)
M.Sc. Semester- IV Examination, 2023
BOTANY
PAPER: BOT 401
(SILVICULTURE, FOREST MENSURATION, SILVICULTURE SYSTEM &
FOREST MANAGEMENT)

Full Marks: 40

Time: 2 Hours

Write the answer for each unit in separate sheet

The figures in the right-hand margin indicate full marks.

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

BOT 401.1
SILVICULTURE & MENSURATION

GROUP-A

1. Answer any **TWO** of the following questions: 2×2=4
- How is DBH measured on a tree?
 - What is crown length?
 - Define edaphic factors.
 - Define form factor.

GROUP-B

2. Answer any **TWO** from the following questions: 2×4=8
- Write a note on social forestry.
 - “Sowing method is cheaper and cost-effective method than planting for artificial regeneration of forest”. Explain it.
 - Mention the role of light in forest formation.
 - What are the different topographical factors?

GROUP-C

3. Answer any **ONE** of the following questions: 1×8=8
- Define agroforestry. What is importance of agroforestry?
Classify and briefly describe the agroforestry system according
to Nair (1987). 2+2+4
 - Mention different formulas for determination of volume of a wooden log.

(P.T.O)

BOT 401.2
SILVICULTURE SYSTEM & FOREST MANAGEMENT

GROUP-A

4. Answer any **TWO** from the following questions:

2×2=4

- a) Define Pollarding in silviculture system.
- b) What is periodic block?
- c) Define working plan in silviculture.
- d) What is forest management?



GROUP-B

5. Answer any **TWO** from the following questions:

2×4=8

- a) Write a short note on regeneration by Taungya.
- b) Distinguish between reserved forest and protected forest.
- c) What is the purpose of standard in coppice with standard system?
- d) Enumerate the basic objectives and management strategies mentioned in National Forest Policy, 1988.

GROUP-C

6. Answer any **ONE** from the following questions:

1×8=8

- a) Define Joint Forest Management. What are the major features of JFM?
What types of benefits are to be given to the fringe forest groups? 2+2+4
- b) Describe the method of felling and regeneration in simple coppice system. 4+4
