

PG CBCS
M.SC. Semester-IV Examination, 2021
BOTANY
PAPER: BOT 401

Full Marks: 40

Time: 2 Hours

Write the answer for each unit in separate sheet

BOT 401.1
(SILVICULTURE & MENSURATION)

Answer any TWO questions from the following: 10 x 2 = 20

1. Write note on agro-forestry. Mention the different objectives of silviculture. 5+5
2. What are different formulas used to measure volume of a fallen log? Mention the different rules for measurement of diameter of a standing tree. 6+4
3. What are the different topographical factors? Mention the role of light in forest formation. 4+6
4. Discuss how wild animals and edaphic factors influences forest plants? 4+6

BOT 401.2
(SILVICULTURE SYSTEM & FOREST MANAGEMENT)

Answer any TWO questions from the following: 10 x 2 = 20

1. Discuss National Forest Policy-1988 giving its objectives. Write short notes on even-aged and uneven-aged management systems. 6+4
2. What is clear felling? Describe the methods of artificial regeneration by Taungya system. Write the advantages and disadvantages of this type of artificial forest regeneration. 2+5+3
3. Define thinning, pruning and pollarding. Distinguish between sustained yield and progressive yield in silviculture. (2+2+2)+4
4. Briefly describe the benefits of J.F.M to the villagers. Mention the advantages and disadvantages of coppicing. 5+5
