- What is the importance of social and agroforestry for timber production?
- (a) Describe the secondary growth formation. 19.

Or

- How you differentiate ring porous wood from diffused porous wood.
- 20. Write general properties of wood. (a)

Or

Narrate the microscopic characteristics of hardwood.

SECTION C —  $(3 \times 10 = 30)$ 

Answer any THREE questions

- Discuss on forest types of Tamilnadu.
- Write an essay on silviculture.
- Write an essay on forest health and its management.
- Write an essay on the properties of wood.
- How the variability of anatomical structure changes the wood structure.

S.No. 6187

P 22 BOE 1 A

(For candidates admitted from 2022–23 onwards)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2023.

Botany — Elective

FORESTRY AN	D W	OOD	TEC.	HN(	ЭLO	OGY
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Time: Three hours Maximum: 75 marks

SECTION A — (20 marks)

## Answer ALL questions

- Choose the correct answer:  $(5 \times 1 = 5)$ (A)
- Which of the following forest type is called as monsoon forest?
  - Rain forest
- Equatorial forest
- Deciduous forest
- (d) Mountain forest
- is the branch of forestry dealing with the timber production.
  - (a) Agronomy
- Pisciculture
- Silviculture
- Horticulture (d)
- 3. Agroforestry is a type of
  - Mixed cropping
- (b) Double cropping
- Multiple cropping (d) Mono cropping

4.	Conduction of sap in plants occurs through	(II) Answer ALL the questions : $(5 \times 2 = 10)$				
	(a) Heartwood (b) Sapwood	11. What are multipurpose trees?				
	(c) Xylem (d) Annual rings	12. Describe the objectives of silviculture.				
<b>5</b> .	The best season for felling of trees for timber production in a hilly area.	13. What is social forestry?				
	(a) Winter (b) Summer (c) Monsoon (d) Spring	14. What is heart wood?				
(B)	Fill in the blanks: $(5 \times 1 = 5)$	15. What is juvenile wood? $SECTION B - (5 \times 5 = 25)$				
6.	is the growing of one single crop all the time.	Answer ALL questions, choosing either (a) or (b).				
<b>7.</b>	is the biological science of studying forests and woodlands.	16. (a) Comment on natural and manmade forest.  Or				
8.	is grown as an energy crop for use in power stations.	(b) Write a comparative account on natural and manmade forest.				
9.	wood species have vessels of approximately the same diameter throughout the growth ring.	17. (a) Write notes on Short Rotation Plantations.				
10.	trees are Softwoods and normally have needle-like leaves.	Or  (b) Briefly explain energy yielding tree plantation.				