22BOU520AN

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2025
(Fifth Semester)

Branch - **BOTANY**

MAJOR ELECTIVE COURSE – I : SILVICULTURE & AGRO FORESTRY

Time: Three Hours Maximum: 75 Marks

SECTION-A (10 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** marks (10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Name a branch of forestry deals with timber production. (i) Pisciculture (ii) Floriculture (iii) Silviculture (iv) Olericulture	K1	CO1
	2	Show the shading effect of trees can be overcome by (i) Fertilizer (ii) Canopy (iii) Root (iv) Water	K2	CO1
2	3	Which of the following is a primary method of natural forest regeneration? (i) Nursery-raised seedlings (ii) Controlled grazing (iii) Seed dispersal (iv)Mechanized timber harvesting	K1	CO2
	4	Relate a creating new forests on land that previously had no forest cover? (i) Reforestation (ii) Deforestation (iii) Desertification (iv) Afforestation	K2	CO2
3	5	Select the method of propagation in *Acacia catechu.* (i) Seeds (ii) Bulb (iii) Grafting (iv) Layering	K1	CO3
	6	Interpret the ideal soil condition for the growth of *Azadirachta indica*? (i) Waterlogged soils (ii) Sodic soils (iii) Clayey soils (iv) Deep dry sand	K2	CO3
4	7	Choose the technique can convert agricultural waste, such as rice husk, into a fuel source? (i) Composting (ii) Vacuum packaging (iii) Tillage (iv) Converting waste to biochar	K1	CO4
	8	Infer trees or shrubs are grown around or among field crops is known as (i) Agroforestry (ii) Silviculture (iii) Mixed Cropping (iv) Horticulture	K2	CO4
5	9	Recall the main source of natural rubber latex is derived from (i) Shorea robusta (ii) Tectona grandis (iii) Hevea brasiliensis (iv) Mangifera indica	K1	CO5
	10	Extend a sticky substances, often collected from trees, is a non-timber forest product used in adhesives? (i) Gum (ii) Kerosene (iii) Plywood (iv) coal	K2	CO5

Cont...

SECTION - B (35 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Outline the Objectives and scope of silviculture.	K2	CO1
		(OR)		
	11.b.	Explain the history of forestry development in India.		
2	12.a.	Organize the Coppice system.	K3	CO2
		(OR)		
	12.b.	Solve the Clear felling system.		
3	13.a.	Apply the rotation age, spacing, tending operations and yield in *Emblica officinalis.*	K3	CO3
		(OR)		
	13.b.	Choose the economic importance of *Eucalyptus.*		
4	14.a.	List the objectives of social forestry.	K4	CO4
		(OR)		
	14.b.	Inspect the role of multipurpose trees.		
5	15.a.	Compare resins and gums.	K4	CO5
		(OR)		
	15.b.	Categorize the collection, processing and disposal of oilseed nuts.		

SECTION -C (30 Marks)

Answer **ANY THREE** questions

ALL questions carry **EQUAL** Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Simplify the forest & forestry Classification.	K4	CO1
2	17	Compare the natural & artificial regeneration of forests.	K4	CO2
3	18	Examine the silvicultural techniques for *Dalbergia sisoo.*	K4	CO3
4	19	Categorize the objectives, methodology, scope and benefits of joint forest management.	K4	CO4
5	20	Inference any two non timber forest products studied by you.	K4	CO5

Z-Z-Z END