

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2025
(Second Semester)

Branch- ZOOLOGY

PLANT BIOLOGY - II

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	Bonsai technique originated from a) India b) Canada c) Japan d) Jordan	K1	CO1
	2	----- is an example of a water plant a) Tulsi b) Tobacco c) Balsam d) Lotus	K2	CO1
2	3	An example of timber yielding tree is a) Guava b) Gulmohar c) Teak d) Tamarind	K1	CO2
	4	----- is an example of minor forest products a) resin b) timber c) fire wood d) Paperwood	K2	CO2
3	5	<i>Justicia adhatoda</i> is used to cure ----- a) cold b) burns c) dysentery d) kidney stone	K1	CO3
	6	----- is used in cosmetics industry a) Neem b) Adhatoda c) Asparagus d) Pongamia	K2	CO3
4	7	The pair of hormones required for a callus to differentiate are _____. a) Ethylene and Auxin b) Auxin and cytokinin c) Auxin and Absciscic acid d) Cytokinin and gibberellin	K1	CO4
	8	Synthetic seeds are produced by the encapsulation of somatic embryos with _____. a) Sodium acetate b) Sodium nitrate c) Sodium chloride d) Sodium alginate	K2	CO4
5	9	Which of the following fermentation processes is used in the production of penicillin? a) Aerobic fermentation followed by anaerobic fermentation b) Anaerobic fermentation c) Aerobic fermentation d) Anaerobic fermentation followed by aerobic fermentation	K1	CO5
	10	Which of the following microorganism is used for the production of citric acid? a) <i>Lactobacillus bulgaricus</i> b) <i>Saccharomyces cerevisiae</i> c) <i>Aspergillus niger</i> d) <i>Streptococcus lactis</i>	K2	CO5

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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.	Demonstrate the maintenance of indoor garden.	K2	CO1
		(OR)		
	11.b.	Outline the steps are used to make bonsai.		
2	12.a.	Construct the types of forest in India.	K3	CO2
		(OR)		
	12.b.	Make use of social forestry.		
3	13.a.	Categorize the medicinal uses of <i>Justicia adhatoda</i> .	K4	CO3
		(OR)		
	13.b.	Examine the active principles found in <i>Vitex negundo</i> .		
4	14.a.	Interpret the types of media.	K5	CO4
		(OR)		
	14.b.	Explain in detail about callus culture.		
5	15.a.	Elaborate on the industrial production of Penicillin.	K6	CO5
		(OR)		
	15.b.	Discuss about the cultivation of Agaricus mushroom.		

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	Classify the design of a water garden.	K4	CO1
2	17	Discover the minor forest products.	K4	CO2
3	18	Examine the uses of medicinal plants in cosmetics.	K4	CO3
4	19	Criticize on artificial seeds.	K5	CO4
5	20	Elaborate on industrial production of citric acid.	K6	CO5

Z-Z-Z

END