

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2026
(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

$$(10 \times 1 = 10)$$

Module No.	Question No.	Question	K Level	CO
1	1	Horticulture is the study that includes i) Fruits, vegetables and flower ii) All food crops iii) Vegetable gardens and lawns near hotels only iv) Some bush crops and apples	K1	CO1
	2	The importance of horticulture is i) improving the productivity of land ii) enhancing exports iii) providing nutritional security to the people iv) all of these	K2	CO1
2	3	Which type of soil is most suitable for growing horticultural crops? i) Sandy soil ii) Clay soil iii) Loamy soil iv) Laterite soil	K1	CO2
	4	Which of the following is a key characteristic of a formal garden? i) Irregular, naturalistic planting ii) Curvilinear paths and beds iii) Symmetrical, geometric design iv) Lack of defined boundaries	K2	CO2
3	5	Forests are important because of the role they play in: i) Soil conservation ii) The water cycle iii) (a) and (b) iv) None of these	K2	CO3
	6	What is the primary objective of the Social Forestry scheme? i) Commercial logging ii) Meeting local demand for fuel, fodder, and timber iii) Protecting endangered species only iv) Exporting forest products	K1	CO3
4	7	Which natural pesticide, derived from a tree indigenous to India, is widely used in organic farming? i) Rotenone ii) Neem (Azadirachtin) iii) Pyrethrin iv) Sabadilla	K2	CO4
	8	What is the primary use of the medicinal plant Ashwagandha in traditional Indian medicine? i) Skin disease ii) Stress reduction (adaptogen) iii) Hair loss iv) Diarrhea	K1	CO4
5	9	Which enzymes are primarily used for the enzymatic isolation of protoplasts? i) Cellulase and Pectinase ii) Amylase and Lipase iii) Cellulase and Protease iv) Pectinase and Ligase	K1	CO5
	10	What is the process of producing alcohol from molasses known as? i) Distillation ii) Fermentation iii) Hydrogenation iv) Oxidation	K2	CO5

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SECTION - B (35 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

Module No.	Question No.	Question	K Level	CO
1	11.a.	Why is horticulture important to human nutrition?	K2	CO1
	(OR)			
	11.b.	Enumerate the biological significance of air layering.		
2	12.a.	How to prepare for laying a lawn? Mention its importance.	K2	CO2
	(OR)			
	12.b.	Represent the significance of hanging plants and Bonsai.		
3	13.a.	Find out the objectives and importance of Social forestry.	K2	CO3
	(OR)			
	13.b.	Write the economically important species of teak?		
4	14.a.	Categorize the active principles of medicinal plants of pharmaceutical importance?	K3	CO4
	(OR)			
	14.b.	Devise the therapeutic and active potential of the medicinal plant <i>Justicia adhatoda</i>		
5	15.a.	Classify the types and significance of sterilization in plant tissue culture.	K4	CO5
	(OR)			
	15.b.	Simplified process for ethanol production from sugarcane bagasse.		

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	Enumerate the propagation method of stem cuttings with suitable examples.	K2	CO1
2	17	Elaborate the varieties, cultivation practice and uses of Mango.	K3	CO2
3	18	Compute the types and importance of major forest products in India.	K3	CO3
4	19	Organize the active principle, medicinal properties of Asparagus.	K4	CO4
5	20	Is a technique of micropropagation is somatic embryogenesis? Discuss.	K5	CO5

Z-Z-Z

END