

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2025
(First Semester)

Branch - **BOTANY**

PLANT DIVERSITY

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	Identify the filamentous blue-green alga. (a) <i>Volvox</i> (b) <i>Oedogonium</i> (c) <i>Oscillatoria</i> (d) <i>Diatom</i>	K1	CO1
	2	Which of the following is a colonial alga? (a) <i>Spirogyra</i> (b) <i>Volvox</i> (c) <i>Chara</i> (d) <i>Nostoc</i>	K2	CO1
2	3	The thallus of <i>Caulerpa</i> is (a) Multicellular (b) Unicellular coenocytic (c) Filamentous (d) Non- filamentous	K1	CO2
	4	<i>Sargassum</i> belongs to the class (a) Chlorophyceae (b) Phaeophyceae (c) Rhodophyceae (d) Cyanophyceae	K2	CO2
3	5	<i>Riccia</i> reproduces by (a) Gemmae (b) Fragmentation (c) Zoospores (d) Budding	K1	CO3
	6	<i>Anthoceros</i> is a member of (a) Hepaticopsida (b) Anthocerotopsida (c) Bryopsida (d) Mycota	K2	CO3
4	7	The sporophyte of <i>Selaginella</i> is (a) Homosporous (b) Heterosporous (c) Monoecious (d) Dioecious	K1	CO4
	8	The plant <i>Equisetum</i> is commonly known as (a) Club moss (b) Horsetail (c) Whisk fern (d) Tree fern	K2	CO4
5	9	<i>Cycas</i> has (a) Naked seeds (b) Enclosed seeds (c) No seeds (d) Non-fruit	K1	CO5
	10	The study of fossils is called (a) Mycology (b) Paleobotany (c) Ecology (d) Phycology	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.	Explain the general characteristics of Algae.	K2	CO1
		(OR)		
	11.b.	Describe the structure and reproduction of <i>Oscillatoria</i> .		
2	12.a.	Illustrate the life cycle of <i>Dictyota</i> .	K3	CO2
		(OR)		
	12.b.	Explain the reproduction in <i>Sargassum</i> .		
3	13.a.	Discuss the structure and reproduction of <i>Riccia</i> .	K4	CO3
		(OR)		
	13.b.	Explain the ecological significance of Bryophytes.		
4	14.a.	Describe the salient features of Pteridophytes	K3	CO4
		(OR)		
	14.b.	Explain the structure and reproduction of <i>Equisetum</i> .		
5	15.a.	Explain the geological eras and types of fossils.	K4	CO5
		(OR)		
	15.b.	Describe the structure of <i>Cycas</i> .		

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	Discuss the Fritsch classification of Algae with examples.	K6	CO1
2	17	Describe the structure and reproduction of <i>Polysiphonia</i> .	K5	CO2
3	18	Explain the classification of Bryophytes by Proskauer.	K5	CO3
4	19	Describe the structure and reproduction of <i>Adiantum</i> .	K4	CO4
5	20	Discuss the economic importance and IKS uses of lower plants.	K4	CO5

Z-Z-Z

END