

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION MAY 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	The branch of botany dealing with algae is known as ----- a. Taxonomy b. Phycology c. Microbiology d. Mycology	K1	CO1
	2	In which of the following is the production of cap cells during reproduction is seen ----- a. Volvox b. Nostoc c. Oedogonium d. Ulothrix	K2	CO2
2	3	The name “Gulf weed “ is used for ----- a. Batrachospermum b. Fucus c. Chlamydomonas d. Sargassum	K1	CO1
	4	Water bloom is generally caused by ----- a. Blue green algae b. Hydrilla c. Bacteria d. Green alga	K2	CO2
3	5	The lower bryophytes are called ----- a. Mosses b. Ferns c. Liverworts d. Molds	K1	CO1
	6	The spores of Riccia are ----- a. Smooth and rounded b. Smooth and tetrahedral c. Spiny and rounded d. Spiny and tetrahedral	K2	CO2
4	7	The rhizophore of Selaginella has ----- a. Monarch stele b. Diarch stele c. Triarch stele d. Tetrach stele	K1	CO1
	8	In Lycopodium the stele is ----- a. Siphonostele b. Meristele c. Polystele d. Polystele	K2	CO2
5	9	Coralloid roots are found in ----- a. Pinus b. Lycopodium c. Cycas d. Lyginopteris	K1	CO1
	10	----- era is known as the “Age of Reptiles”. a. Paleozoic era b. Mesozoic era c. Cenozoic era d. Precambrian era	K2	CO2

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.	Recall the structure of Oscillatoria.	K1	CO1
		(OR)		
	11.b.	Find out the general characteristics of Algae.		
2	12.a.	Outline the structure of conceptacle in Sargassum.	K2	CO2
		(OR)		
	12.b.	Summarize the reproduction of Caulerpa.		
3	13.a.	Identify the Proskauer (1957) classification of bryophytes.	K3	CO3
		(OR)		
	13.b.	Build the reproduction of Anthoceros.		
4	14.a.	Examine the general characters of Pteridophytes.	K4	CO4
		(OR)		
	14.b.	Simplify the structure of Selaginella.		
5	15.a.	Explain the reproduction of Gnetum.	K5	CO5
		(OR)		
	15.b.	Determine the different kinds of geological era.		

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	Outline the structure and reproduction of Volvox.	K2	CO2
2	17	Construct the reproduction of Gracilaria.	K3	CO3
3	18	Categorize the general characters and structure of Riccia.	K4	CO4
4	19	Explain the structure of Adiantum.	K5	CO5
5	20	Predict the structure of Gnetum and Cycas.	K6	CO6

Z-Z-Z

END