

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2023
(First Semester)

Branch- BOTANY

PLANT DIVERSITY - I

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	Which are the most primitive group of algae? (i) Blue green algae (ii) Red algae (iii) Brown algae (iv) Green algae	K1	CO1
	2	One of the following is present in blue green algae (i) Starch (ii) Cyanophacean granule (iii) Any polysaccharide (iv) Floridian starch	K2	CO1
2	3	Kelps is obtained from (i) Algae (ii) Marine algae (iii) Aquatic algae (iv) Lichen	K1	CO2
	4	In chlorophyceae and phaeophyceae, the type of sexual reproduction is (i) Isogamous (ii) Anisogamous (iii) Oogamous (iv) Isogamous, Anisogamous and Oogamous	K2	CO2
3	5	Which of the following is not a member of class phycomycetes? (i) Mucor (ii) Rhizopus (iii) Albugo (iv) Claviceps	K1	CO3
	6	Fungi producing mycelium are called (i) Moulds (ii) Filamentous fungi (iii) Moulds and Filamentous fungi (iv) Yeasts	K2	CO3
4	7	Major group of Algae involved in lichen formation is (i) red algae (ii) brown algae (iii) blue green algae (iv) yellow green algae	K1	CO4
	8	In Lichens following special vegetative structure is formed as respiratory organs (i) Soredia (ii) Isidia (iii) Cyphellae (iv) Medulla	K2	CO4
5	9	To which group would you assign a plant which produces spores and embryos, but lacks seed and vasculature? (i) Algae (ii) Fungi (iii) Pteridophyte (iv) Bryophytes	K1	CO5
	10	A specialised organ of the sporophyte for attachment to the gametophyte is called (i) Stalk (ii) Foot (iii) Apophysis (iv) Root	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.	List out the presence of reserve food in algae.	K4	CO1
	(OR)			
	11.b.	Inspect on the contributions of Indian mycologist.		
2	12.a.	Justify the Algae are helpful to mankind.	K5	CO2
	(OR)			
	12.b.	Describe the mass cultivation Algae.		
3	13.a.	Simplify the structure of <i>Albugo</i> .	K4	CO3
	(OR)			
	13.b.	List out the economic importance of harmful fungi.		
4	14.a.	Explain the difference between homothallism and heterothallism in fungi.	K3	CO4
	(OR)			
	14.b.	Apply your view to establish that physiology is accomplished in the organization of lichen thallus organization.		
5	15.a.	Illustrate the classification of bryophytes by Smith.	K2	CO5
	(OR)			
	15.b.	Explain the spore dispersal mechanism in <i>Polytrichum</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	Describe the classification of algae by F.E. Fritsch.	K5	CO1
2	17	Explain the various types of life cycle patterns found in algae.	K5	CO2
3	18	Discuss the reproduction in basidiomycetes.	K6	CO3
4	19	Elaborate in the types of Lichens and its economic importance.	K5	CO4
5	20	Explain the evolution of sporophytes in bryophytes.	K5	CO5

Z-Z-Z

END