

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2023
(First Semester)

Branch - BOTANY

PLANT DIVERSITY - 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	The main plant body of pteridophyte is a) gametophyte c) macrophylls b) sporophyte d) angiosperm	K1	CO1
	2	The leaf of ferns are a) microphylls c) sporophylls b) macrophylls d) strobili	K2	CO1
2	3	The distinct compact structure called strobili or cones are found in a) <i>Selaginella</i> c) both a and b b) <i>Equisetum</i> d) gymnosperms	K1	CO1
	4	The sporangia produce spores in spore mother cell by a) mitosis b) meiosis c) amitosis d) zygotene	K2	CO1
3	5	Inverted omega-shaped organization of vascular bundles is seen in a) cycas root c) cycas leaflet b) cycas stem d) cycas rachis	K1	CO1
	6	Pick the pair that is incorrectly matched. a) Cycas – coralloid roots b) Abies – wood tar, wood gas c) Pinus – Mycorrhizal roots d) Sequoia – Redwood tree	K2	CO1
4	7	In the cycas, vegetative reproduction is by means of _____. a) Leaf b) Bulbils c) Corals d) Seeds	K1	CO1
	8	The gymnosperms are that means they produce different male and female spores. a) Homosporous c) Microspores b) Heterosporous d) Megaspores	K2	CO1
5	9	Radiocarbon dating can help find the age range of biological specimens no older than: a) 50,000 years c) 500,000 years b) 100,000 years d) 1,000,000 years	K1	CO1
	10	The scientific study of the structure of bones, skeletal elements and micro bone morphology are called: a) Osteology c) Entomology b) Herpetology d) None of the above	K2	CO1

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.	Analyze the reproduction in <i>Nephrolepis</i> .	K4	CO3
	(OR)			
	11.b.	Examine the anatomy of <i>Pteridium</i> .		
2	12.a.	Evaluate the economic importance of Pteridophytes.	K5	CO4
	(OR)			
	12.b.	Explain the morphology of <i>Salvinia</i> .		
3	13.a.	Analyze the account of Pteridospermales.	K4	CO3
	(OR)			
	13.b.	Distinguish the general characters of Gymnosperms.		
4	14.a.	Criticize the anatomy of <i>Taxus</i> .	K5	CO4
	(OR)			
	14.b.	Explain the morphology of <i>Pinus</i> cone.		
5	15.a.	Elaborate the methods of fossilization.	K6	CO5
	(OR)			
	15.b.	Discuss the features of <i>Williamsonia</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	Analyze the life cycle patterns of <i>Equisetum</i> .	K4	CO3
2	17	Explain the stelar evolution in pteridophytes.	K5	CO4
3	18	Examine the elaborate the account of pentoxylales.	K4	CO3
4	19	Elaborate the economic importance of Gymnosperms.	K6	CO5
5	20	Explain the Geological time scale.	K5	CO4

Z-Z-Z

END