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22BOU102N/22BOU102/18BOU02

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2023
(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	Find the meaning of Coenobium a) A hollow spherical colony b) A group of filaments c) Palmelloid form d) thallus form	K1	CO1
	2	Show the vegetative body of algae. a) Mycelium b) Pseudoplasmodium c) Fog d) Thallus	K2	CO1
2	3	Recall the algal family helps in nitrogen fixation. a) Rhodophyceae b) Cyanophyceae c) Chlorophyceae d) Phaeophyceae	K1	CO2
	4	Relate the Sargassum algae a) Red algae b) Blue green algae c) Brown algae d) Green algae	K2	CO2
3	5	Which one of the following is the amphibian of the plant kingdom? a) Pteridophytes b) Gymnosperms c) Bryophytes d) Angiosperms	K1	CO3
	6	Infer the bryophyte harbouring Nostoc colonies a) Zoopis b) Anthoceros c) Dawsonia d) Marchantia	K2	CO3
4	7	Match the Pteridophytes a) phanerogams b) spermatophytes c) vascular cryptogams d) amphibians of plant kingdom	K1	CO4
	8	Show the origination of Seed habit. a) Pteridophytes b) Bryophytes c) Algae d) Fungi	K2	CO4
5	9	Name the plant group produces seeds but lacks flower and fruits a) Fungi b) Bryophytes c) Pteridophytes d) Gymnosperms	K1	CO5
	10	Interpret the Xylem of gymnosperms is devoid of a) tracheids b) fibre c) parenchyma d) vessels	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.	Classify the Algae by Fritsch system	K2	CO1
		(OR)		
	11.b.	Explain the structure of *Oscillatoria*.		
2	12.a.	Summarize the vegetative body of Dictyota.	K2	CO2
		(OR)		
	12.b.	Explain the economic importance of algae.		
3	13.a.	Apply the ecological importance of bryophytes.	K3	CO3
		(OR)		
	13.b.	Organize the bryophytes according to Proskauer (1957).		
4	14.a.	Analyze the general characters of Pteridophytes.	K4	CO4
		(OR)		
	14.b.	Simplify the L.S. of Strobili of *Selaginella*.		
5	15.a.	Elaborate on the L.S of ovule of Gnetum.	K6	CO5
		(OR)		
	15.b.	Compile the types of fossilization.		

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	Summarize the general characters of algae.	K2	CO1
2	17	Explain the Sexual reproduction of *Sargassum*.	K2	CO2
3	18	Apply the structure of sporophyte in *Anthoceros*.	K3	CO3
4	19	Examine the development of Sporangium in *Eqiusetum*.	K4	CO4
5	20	Discuss on development of Microsporangium in Cycas.	K6	CO5

Z-Z-Z END