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**GIET UNIVERSITY, GUNUPUR - 765022**  
**M. Sc. (Third Semester Regular) Examinations, December - 2023**  
**22PSPC301 - Plant Morphology and Reproduction**  
 (Plant Science)

Time: 3 hrs

Maximum: 70 Marks

(The figures in the right hand margin indicate marks.)

**PART – A****(2 x 10 = 20 Marks)**

Q.1. Answer <i>ALL</i> questions	CO #	Blooms Level
a. What are algae?	CO1	K1
b. State basidiomycetes.	CO1	K2
c. Explain on gametangial contact in fungi.	CO1	K2
d. Write on filicales.	CO2	K1
e. Define vascular tissue.	CO2	K1
f. Write do you mean by strobilus.	CO2	K3
g. What are corniferals?	CO3	K3
h. Define cast.	CO3	K1
i. Elucidate artificial system of classification.	CO4	K4
j. What is author citation?	CO4	K4

**PART – B****(10 x 5 = 50 Marks)**Answer *ANY FIVE* questions

	Marks	CO #	Blooms Level
2. a. Write five characteristics of fungi.	3	CO1	K1
b. Write in detail on economic importance of fungi.	7	CO1	K3
3.a. What are the asexual spores found in algae?	3	CO1	K2
b. Illuminate on reproduction in algae.	7	CO1	K4
4. a. Describe structure of prothallus of pteridophyta.	3	CO2	K2
b. Justify filicals is the most advanced group in pteridophyta.	7	CO2	K3
5.a. What is heterospory?	3	CO2	K1
b. Explain in detail with diagrams on origin of heterospory and its significance.	7	CO2	K3
6. a. Explicate geological era.	3	CO3	K2
b. Describe in detail on geological time scale with respect to origin of plants.	7	CO3	K4
7.a. What is fossilization?	3	CO4	K2

b.	Write details on process of fossilization.	7	CO4	K3
8. a.	What are the affinities of family Apocyanaceae?	3	CO4	K1
b.	Describe the characteristics, floral diagram and phylogeny of Apocyanaceae.	7	CO4	K4

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