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GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY UNIVERSITY, ODISHA, GUNUPUR
(GIET UNIVERSITY)

M. Sc. (Third Semester) Regular Examinations, December – 2024

22PSPC301 – Plant Morphology and Reproduction

(M.Sc. 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 ***ALL*** questions	CO #	Blooms Level
a. Define aplanospores.	CO1	K1
b. State Cyanophyceae**.**	CO1	K2
c. Explain on hologamy in fungi.	CO1	K2
d. Write on Church's Hypothesis.	CO2	K1
e. Define heterospory**.**	CO2	K1
f. Write do you mean by sporophytes.	CO2	K3
g. Define corniferals.	CO3	K3
h. Define Compressions process of fossilization.	CO3	K1
i. Elucidate artificial system of classification.	CO4	K4
j. Define Tautonym.	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 is alternative of generation in bryophyte?	3	CO1	K2
b. Describe the degeneration of sporogenous tissues in bryophyte.	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 are the characteristics of Gnetals?	3	CO2	K1
b. Explain in detail with diagrams on angiospermic character of Gnetals.	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. Write on ICBN.	3	CO4	K2
b. Give an account of different systems of classifications in plants.	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