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GIET UNIVERSITY, GUNUPUR - 765022
M. Sc (Second Semester) Examinations, July - 2023
22LSPC204 - Biodiversity & Evolution
(Life 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. Explain about Alpha and Beta diversity.	2	3
b. What the importance of Joint Forest Management	2	2
c. Write a note on Ex situ and In situ biodiversity.	2	3
d. What are the features of molecular clock?	4	3
e. Explain how Prokaryotic cells have given origin to aerobic eukaryotic cells.	2	3
f. What is the importance of evolutionary biology?	3	2
g. Write about species richness.	2	3
h. What do you mean by founder effect?	4	3
i. What are living fossils?	3	2
j. What is the importance of sexual selection?	3	2

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

	Marks	CO #	Blooms Level
2. a. Write the salient feature of Biodiversity Act 2002 and mention its importance.	5	2	4
b. Discuss about the status of biodiversity nationally and internationally.	5	1	5
3.a. Discuss the indirect evidences of organic evolution.	5	2	4
b. What is the contribution of S Miller on evolution?	5	3	4
4. a. Write a note on Shannon Wiener Index with suitable example.	5	1	4
b. Describe about systematics and role in evolution.	5	4	4
5.a. Discuss on the contribution of life people towards nature highlighting event of Chipko Movement.	5	2	4
b. Write a note on Cladistics and Phenetics.	5	4	3
6. a. Give the salient feature of modern synthetic theory of organic evolution.	5	3	3
b. Write a short note on natural selection.	5	4	3
7.a. Describe about various concept of species.	5	3	4
b. Write a short note on the types of speciation	5	3	4
8. a. What according to you is the principle of biodiversity and major need for the conservation of biodiversity?	5	1	3
b. Write a note on various biotechnological techniques utilized for conservation of biodiversity?	5	1	4

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