Zoology (P.G.) [CBCS]

M.Sc. Third Semester End Examination-2023 (Regular & Supplementary Paper) PAPER-304

[CBCS PAPER]

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as

far as practicable

Illustrate the answers wherever necessary
[USE SEPARARE ANSWER SCRIPT IN EACH GROUP]

Group A

Full Marks 20

[Biological oceanography]

- 1. Answer any two questions of the following:
- 2x2 = 4
- a. What do you mean by decomposers in an ecosystem?
- b. What do you mean by netproductivity in an ecosystem?
- c. What is biomass?
- d. What is spatial niche?
- 2. Answer any two questions of the following:

2x4 = 8

a. Explain the pressure as physical factor in Marine ecosystem.

	(2)
b.	What are the impact of oil pollution on marine prawn fisheries.
c.	Describe different trophic level of marine ecosystem.
d.	Describe different theories regarding formatin of coral reef.
3.	Answer any one question of the following: 1x8=8
a.	What is energy? What is energy flow of an ecosystem? Write the
	Y channel energy flow model of an ecosystem. 1+2+5
Ъ.	What do you mean by pneumatophores? Write characteristics

features of mangrove ecosystem. Write note on benthic

2+3+3

Group B

Full Marks 20

[Applied Biological and Ecological Principles]

4.	Answer any two questions of the following:	2x2=

- a. What do you mean by bioremediation & phytoremediation?
- b. What is edge effect? Give an example.
- c. What is population pyramids? What are the types?
- d. What is niche overlap?

organisms.

5. Answer any two questions of the following: 2x4=8

a. Elaborate the concept of resource partitioning. Mention its significance in ecosystem function.

b.	Name	the major	terrestrial	biomes you	studied	with	thei
	locatio	n.					

- c. What is resource partitioning & character displacement.
- d. Describe about the types of bioremediation.

6.	Answer any	one question of the following:	1x8=8
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- a. Describe about life history strategies in a population.
 Briefly describe about island biogeography with diagram.
- b. Describe about Tropical & Temperate biomes. 4+4