2022

Zoology

[P.G.]

(CBCS)

(M.Sc. Third Semester End Examination-2022) PAPER-304

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

Group-A

[Biological Oceanography]

1. Answer any two questions of the following:

2x2 = 4

- a) What do mean by gross production in an ecosystem?
- b) Explain the term 'trophic level'?
- c) What is food chain?
- d) What is microbial loop?

2. Answer any Two questions of the following:

4x2 = 8

- a) State the effects of pollution on marine ecosystem?
- b) Estuarine ecosystem is more productive then fresh water ecosystem Explain.

$^{\circ}$	State the	main ch	naracteristics	of mangrove	ecosystem.

d) Show the relationship between cnidaria and coral reef.

3. Answer any one question of the following:

1x8 = 8

- a) Define estuary? Write the name of any two estuaries of India. Enlist the fisheries resources of estuaries. 2+1+5
- b) Write the differences between coral corallite & coralum. Discuss the process of energy flow in marine ecosystem.

 6+2

Group-B

[Applied Biology & Ecological Principle]

4. Answer any two questions of the following:

2x2 = 4

- a) What are the factors that have effectiveness on bioremediation process?
- b) What are the areas of tropical moist broadle of forests and tropical dry broadleaf forest?
- c) Define multidimensional niche.
- d) Define metapopulation

5. Answer any two questions of the following:

2x4 = 8

- a) Briefly describe about survivorship curve with proper graph & examples.
- b) Explain 'r' & 'z' strategies'.
- c) How you describe the two types of niche with reference to barnacles?

d) Discuss the characteristics of a terrestrial biome

2+2

6. Answer any one question of the following:

1x8 = 8

- a) Describe about three types of population dispersion with figure.
 What is carrying capacity?
 What are the characteristics features of Desert & xeric shrub lands? What is deme?
- b) Give an account of biogeographical region or zones of India. 8