



QP CODE: 19102169



Reg No : .....

Name : .....

**B.Sc. DEGREE (CBCS) EXAMINATION, OCTOBER 2019**

**Third Semester**

B.Sc Zoology Model II Aquaculture

**VOCATIONAL COURSE - ZA3VOT05 - FISHERIES ENVIRONMENT**

2017 Admission Onwards

C66ACB24

Maximum Marks: 60

Time: 3 Hours

**Part A**

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Comment on nudation and invasion phase of ecological succession.
2. What is ecological succession?
3. Define ecological indicator.
4. Comment on 'arm' of a cyclone.
5. What is Stream?
6. Comment on capillary waves.
7. Describe microelements with examples.
8. Give four examples for secondary producers from marine environment.
9. Comment on migratory fauna of an estuarine ecosystem.
10. Briefly explain sedimentation pond.
11. What is PFZ?
12. What is Deep Scattering layer?

(10×1=10)

**Part B**

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. What is a Photosynthetic Food Chain? Explain the different components of the Photosynthetic Food Chain?





14. Explain Photosynthetic and Saprophytic Food Chains. Explain the differences between them.
15. Explain Weather and Formation of Monsoon.
16. Comment on Major seasons and seasonal changes in Indian subcontinent.
17. Give an account of marine sediments and its classification based on their origin.
18. Comment on C14 and chlorophyll techniques.
19. Explain mangrove ecosystem and its relevance.
20. Explain ecological and economic importance of corals.
21. Give an account of plankton sampling devices.

(6×5=30)

### **Part C**

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Explain the various adaptations of planktonic and deep sea animals.
23. Explain primary production and estimation of primary productivity.
24. Give an account on biogeochemical cycles of nitrogen, phosphorus and sulphur.
25. Explain different types of fish finding devices.

(2×10=20)

