

Reg. No

Name

19P2009

MSc DEGREE END SEMESTER EXAMINATION - MARCH/APRIL 2019

SEMESTER 2 : AQUACULTURE AND FISH PROCESSING

COURSE : 16P2AQCT05 : ECOLOGY OF CULTURAL SYSTEM AND AQUATIC BIOLOGY

(For Regular - 2018 Admission and Supplementary - 2017/2016 Admissions)

Time : Three Hours

Max. Marks: 75

Section A

Answer any 8 (2 marks each)

1. How excess CO₂ effect farming in pond.
2. Effects of monsoon on physical condition of culture ponds
3. What is the optimum level of oxygen in a culture system? How does oxygen enter the system?
4. Liming of a pond
5. Monera
6. Morphology of bacteria
7. Oxygen distribution in an aquatic system
8. Benthic productivity
9. Diurnal migration of plankton in a pond
10. Xenobiotic
11. Vertical migration
12. Cyclomorphosis

(2 x 8 = 16)

Section B

Answer any 7 (5 marks each)

13. Seasonal and Diurnal variations in a pond ecosystem
14. Dissolved Oxygen concentration in relation to temperature in aquatic medium.
15. Three-Class Attribute Plan
16. Various methods used for the enumeration of bacteria
17. Biological nitrogen fixation
18. Describe the pyramid of biomass with a suitable example from the aquatic environment
19. Various groups benthos found in a brackish water system?
20. Pelagic realm of the sea
21. Major constituents of sea water
22. How bottom trawling effects marine environment?

(5 x 7 = 35)

Section C

Answer any 2 (12 marks each)

23. Describe the strategies you will adopt for maintaining a good aquaculture environment conducive for culture of shrimps.
24. Describe Statistical Sampling methods for enumeration of bacteria
25. Illustrate the ecological energetic of pond with reference to productivity
26. Rivers and estuarine ecosystem supports the coastal productivity. Explain.

(12 x 2 = 24)