Reg. No ..... Name **18P209**

MSc DEGREE END SEMESTER EXAMINATION- APRIL 2018

SEMESTER 2 : AQUACULTURE AND FISH PROCESSING

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

(Common for Regular - 2017 & Supplementary - 2016 admission)

Time : Three Hours Max. Marks: 75

Section A
Answer any 8 (2 marks each)

1. What is total hardness?
2. Diurnal migration of plankton in a pond.
3. What is the optimum level of oxygen in a culture system? How does oxygen enter the system?
4. Phytoplankton
5. Osmophilic mold
6. Microbial proliferation in relation to ecological conditions in a pond.
7. Energy flow in aquatic systems.
8. Types of benthic algae
9. Phosphate fertilizer
10. Wet lands
11. Negative Estuary
12. EEZ

(2 x 8 = 16)

Section B
Answer any 7 (5 marks each)

13. Seasonal and Diurnal variations in a pond ecosystem
14. Significance of liming
15. Role of microbes in regeneration of nutrients.
16. Sludge accumulation and its control
17. What is Lentic ecosystem ? Briefly explain its characteristics
18. Problems in applying organic manures in culture ponds.
19. Division of Seas
20. Pelagic realm of the sea
21. Salt marshes in India
22. Explain benthic productivity in aquatic ecosystems

(5 x 7 = 35)

Section C
Answer any 2 (12 marks each)

23. Describe the physio-chemical characteristics of fresh water environment
24. Role of microbes in regeneration of nutrients in pond
25. Illustrate the ecological energetic of pond with reference to productivity
26. Marine ecosystem health can be measured through zooplankton grazing and abundance.

Explain in detail

(12 x 2 = 24)