**20P2009**

Reg. No ..... Name .....

**M. Sc DEGREE END SEMESTER EXAMINATION - MARCH 2020**

**SEMESTER 2 : AQUACULTURE AND FISH PROCESSING**

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

***(For Regular - 2019 Admission & Supplementary 2018/2017/2016 Admissions)***

Time : Three Hours Max. Marks: 75

**Section A**

**Answer any 8 (2 marks each)**

1. How the pH in pond system can be maintaned at optimum level?
2. Define Cage culture
3. Fishes are found gasping air fom the surface of ponds during dawn - why?
4. Ammonification
5. Define Monera kingdom.
6. What is meant by facultative anaerobic bacteria?
7. Define benthos and give its importance in a culture pond.
8. What are Inorganic fertilizers and what is its impact on aquaculture system?
9. Define benthic productivity
10. Name eight estuaries of India
11. Describe diurnal migration of zooplankton
12. Define Biological productivity of an ocean

(2 x 8 = 16)

**Section B**

**Answer any 7 (5 marks each)**

13. How depth influences the productivity of water ?
14. Write a note on the seven colour patterns of a culture pond.
15. Estimation of sediment bacterial count
16. Classify bacteria based on shape and grams staining reaction.
17. What is Lentic ecosystem ? Briefly explain its characteristics
18. What is carrying capacity of a Pond ecosystem?
19. Effect of Organic fertilizer on pond productivity
20. Explain Chemical composition of sea water.
21. Describe the characteristics of continental shelf area.
22. Briefly explain the importance of Wet lands

(5 x 7 = 35)

## Section C
## Answer any 2 (12 marks each)

23. What is turbidity? Classify turbidity. How can you measure and control turbidity in a pond? Explain the chemistry of colloid clay suspension.
24. Explain the microorganisms seen in culture ponds.
25. Importance of organic farming
26. What are the major estuaries systems of India? Describe the characteristics of any one major estuary in India.

(12 x 2 = 24)