

M. Sc DEGREE END SEMESTER EXAMINATION - OCT 2020 : FEBRUARY 2021**SEMESTER 1 : AQUACULTURE AND FISH PROCESSING****COURSE : 16P1AQCT04 : AQUACULTURE ENGINEERING***(For Regular - 2020 Admission and Supplementary - 2016/2017/2018/2019 Admissions)*

Time : Three Hours

Max. Marks: 75

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

1. Describe field test for plasticity.
2. What are the stages of survey operation?
3. What is Master Sluice Gate?
4. What is slide slope?
5. How can we determine the height of a dike?
6. Conditions for suitability of bunds.
7. What is dry density?
8. Define coefficient of permeability.
9. How is fouling controlled?
10. What is a rack?
11. What is flumes?
12. Name brackish water resources.

(2 x 8 = 16)**PART B****Answer any 7 (5 marks each)**

13. Give an account on excavation of ponds.
14. Differentiate upper plastic limit and lower plastic limit.
15. Explain different soil compaction methods for seepage reduction.
16. Explain the advantages of liming a soil and the recommended dose of lime for different pH situations.
17. Write notes on the methods for mechanical analysis of soil.
18. Cage Culture of Cobia in India
19. Main parts of a cage farm.
20. What is rack culture? What are its merits?
21. What are surface aerators?
22. Write short notes on automatic feeders.

(5 x 7 = 35)**PART C****Answer any 2 (12 marks each)**

23. Write an essay on sealing of pond bottom and dike.
24. Write an essay on classification of soils and their relative advantage in an aquaculture farm.
25. Soil parameters to be borne in mind before constructing a shrimp farm.
26. What are filters? Explain the different types of filters.

(12 x 2 = 24)