



বিদ্যাসাগর বিশ্ববিদ্যালয়

VIDYASAGAR UNIVERSITY

M.Sc. Examinations 2020

Semester IV

Subject: Fisheries Science

Paper: FSC 403 (Special Paper)

(Theory)

Full Marks: 40

Time: 2 hrs.

Candidates are required to give their answers in their own words as far as practicable.

Unit-1: (Aquaculture Engineering & Environment Management)

Answer any One of the following questions

1. Briefly narrate the intensification of aquaculture
2. Draw and design the layout of different aquafarms
3. Describe the integrated aquafarming system
4. Write a brief note on Biofertilizers
5. Discuss waste water treatment for sustainable aquaculture
6. Describe the process of weed management
7. Explain the role of soil and water quality of aquaculture pond
8. Briefly narrate the construction and design of pond dyke, sluice gate, water supply and drainage system
9. Briefly illustrate the cage and pen culture

Unit:2 : (Fish Genetics and Biotechnology)

Answer any one of the following questions:

1. Briefly describe meiotic gynogenesis in fish with suitable diagram. State its usefulness.
2. What is sex reversal? Explain the methods with suitable examples.
3. What is transgenic fish? Explain its importance in aquaculture development.
4. Briefly discuss evolution of fish karyotypes.
5. Briefly explain the procedure for the production of sterile fish.
6. Elaborate the process of DNA folding and packaging in to a metaphase chromosome.
7. Discuss different types of fish hybridization with suitable examples.
8. What is monosex fish culture? State its importance.
9. Give an account of application of biotechnology in aquaculture and fisheries.