

PG CBCS
M.Sc. Semester-II Examination, 2022
FISHERIES SCIENCE
PAPER: FSC 202

Full Marks: 40**Time: 2 Hours****Write the answer for each unit in separate sheet**

The figures in the right-hand margin indicate full marks.

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

FSC 202.1: Fish Reproduction**Marks: 20****GROUP-A****1. Answer any one question:****1×8=8**

- a) Write down briefly the brood fish care and management process for Indian Major Carps. Add a note on factors affecting spawning of fish. 4+4
- b) Discuss the seed production technique of penaeus monodon. How to improve seed quality? 6+2

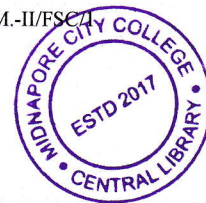
GROUP-B**2. Answer any two questions:****2×4=8**

- a) Write down briefly about the new generation drugs used in induced breeding of Indian Major Carps.
- b) What are main criteria for selection of fish for breeding?
- c) Write down the cryopreservation technique used in preservation of fish gametes.
- d) How the fish seeds are collected from nature?

GROUP-C**3. Answer any two questions:****2×2=4**

- a) Define fecundity of a fish.
- b) What do you mean by multiple breeding?
- c) What are the factors affecting spawning of fish?
- d) Write down the sexual dimorphism of Labeo rohita.

(P.T.O.)

FSC 202.2: Hatchery Design & Management**Marks: 20****GROUP-A****1. Answer any one question:****1×8=8**

- a) What is glass jar hatchery? Write down briefly about the glass jar hatchery used in fish breeding with suitable diagram. Add a note on constraints of glass jar hatchery. 2+4+2
- b) Define eco-hatchery. Briefly discuss the design of a typical Chinese eco-hatchery with suitable diagram. Add a note on limitation of eco-hatchery. 2+4+2

GROUP-B**2. Answer any two questions:****2×4=8**

- a) What are the optimum water quality parameters of a typical hatchery?
- b) Write down the merits and demerits of typical earthen pot hatchery.
- c) Write down the management practices of carp hatchery.
- d) Write down the techniques adopted to management of different diseases in hatchery system.

GROUP-C**3. Answer any two questions:****2×2=4**

- a) Define Indicator species with example.
- b) Mention the name of major estuaries of India.
- c) Write the difference between holoplankton and meroplankton.
- d) What are the driving forces of coastal areas?
