



Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)
Re-accredited with 'A+' Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

Bachelor's Degree Examination – January 2021
V Semester

Class : III UG
Major : Zoology

Time : 3 Hours
Max. Marks : 100

18BZOC17 Aquaculture

Part A
Choose the Correct Answer

10 x 1 = 10

- The device used to catch fish is called
 - Gear
 - Boat
 - graft
 - Thimbles
- The major gear used to exploit tunas from the Indian coastal waters is
 - Trolling
 - Purse seines
 - Trawlers
 - Drift gill nets
- Which of the following fish group is most abundant in swamps?
 - Carps
 - Mullet
 - Catfish
 - Clupeids
- Which of the following is used for induced breeding in fishes?
 - MOET
 - Hypophysation
 - ART
 - Artificial insemination
- Agri-based integrated fish farming system contains which of the following?
 - Cattle-Fish system
 - Goat-Fish system
 - Duck-Fish system
 - Mushroom-Fish system
- The first transgenic fish carried transgenes driven by
 - Mammals
 - Virus
 - Xenopus
 - Bacteria
- How can you significantly reduce the levels of accumulating phosphates in your tank?
 - Rinse off excess organic matter from filter material
 - Gravel vacuum the tank
 - Water change
 - All the above.
- Scientific name of Gold fish is
 - Sardinella afbella*
 - Carassius auratus*
 - S. dayi*
 - C. longiceps*
- Which one is an ornamental fish?
 - Tarpon
 - Trout
 - Tuna
 - Guppy
- Which of the following family is viviparous?
 - Percidae
 - Siluridac
 - Fislulariidae
 - Poccili idac

Part B
Answer ALL questions

5 x 6 = 30

Each answer should not exceed 400 words or two pages

- 11.a. Write a note on history of aquaculture.
(or)
- 11.b. Give short notes on the hook and line gear.
- 12.a. Explain the objectives of fish culture.
(or)
- 12.b. Explain about the types of cultivable fishes.
- 13.a. Describe the integrated fish farming.
(or)
- 13.b. Explain about the transgenic fish.
- 14.a. Give a detailed note on the aerators and filters of an aquarium tank.
(or)
- 14.b. Add an account on the plants of aquarium.
- 15.a. Give a detailed account on oviparous.
(or)
- 15.b. Brief the biology of angel fish.

Part C
Answer ALL questions

5 x 12 = 60

Each answer should not exceed 800 words or four pages

- 16.a. Add an elaborate account on the passive types of nets.
(or)
- 16.b. Discuss about seines and trawls.
- 17.a. Discuss in detail about the structure and types of fish ponds.
(or)
- 17.b. Elaborate the breeding habits of cultivable fishes.
- 18.a. Elucidate the method of fish culture in brackish water and its advantages.
(or)
- 18.b. Add notes on a) Cryopreservation of gametes. b) Hybridization.
- 19.a. Write in detail about the breeding strategies of fishes.
(or)
- 19.b. Explain the role of accessories used in the aquarium tank.
- 20.a. Delineate the taxonomy and biology of ovoviviparous.
(or)
- 20.b. Describe in details about breeding and spawning of egg laying fishes.
