

M.Sc. (Zoology)-II (C.B.C.S. Pattern) Sem-IV
PSCZOOT15.7 -Paper-XV : Special Group Aquaculture-IV
(Fish Pathology and Fish Genetics)

P. Pages : 1

Time : Three Hours



GUG/S/19/11445

Max. Marks : 80

- Notes :
1. All questions are compulsory to solve.
 2. All questions carry equal marks.
 3. Draw well labelled figures wherever necessary.

1. Discuss on biochemical composition of a raw fish. 16

OR

Write notes on:

- a) Methods of fish preservation
- b) Nutritional value of raw and preserved fishes.

2. Write an essay on fish products and by-products. 16

OR

Write notes on:

- a) Effects of water pollution on fishes.
- b) Fish food poisoning.

3. Explain fungal, bacterial and protozoan diseases in farm fishes. 16

OR

Write notes on:

- a) Worm and crustacean diseases in fishes
- b) Nutritional diseases in fishes.

4. Give an account of fish genetic resources and its application in fisheries management. 16

OR

Write notes on:

- a) Gene banking and its applications in aquaculture.
- b) Cryo-preservation of gametes.

5. Attempt the followings: 16

- a) Principles of fish preservation
- b) Rigor mortis and fish spoilage.
- c) Diseases caused by aquatic pollutants.
- d) Transgenic fishes.
