



**WEST BENGAL STATE UNIVERSITY**  
B.A./B.Sc./B.Com. Major Part-I Examination, 2020

**INDUSTRIAL FISH AND FISHERIES**

**PAPER- IFFV-I**

Time Allotted: 2 Hours

Full Marks: 50

*The figures in the margin indicate full marks.  
Candidates should answer in their own words and adhere to the word limit as practicable*

**GROUP-A**

1. Answer any **three** questions from the following: 2×3 = 6
  - (a) Define Binomial nomenclature with example.
  - (b) Mention two differences between elasmobranch and teleostean fish.
  - (c) What is venous heart? Give example.
  - (d) Mention sexual dimorphism of crab.
  - (e) Define fecundity. Mention its significance.
  - (f) What is Ponderal index?
  
2. Write note on any **one** of the following: 5×1 = 5
  - (a) Scale of fish
  - (b) Feeding habit of bivalve
  - (c) Types of fish egg.
  
3. Answer any **two** questions from the following: 7×2 = 14
  - (a) Write at least two characteristic features of the order Clupeiformes. Give example. State the importance of fin and fin rays in the taxonomy of fish. 2+5
  - (b) Describe with diagram the typical gill arch of a teleostean fish and mention the function of its different parts. What is the name of accessory respiratory organ of *Clarias* and *Anabas*? 5+2
  - (c) Define chemoreception. Write an account of appendages of Prawn. 2+5
  - (d) Define Isometric and Allometric growth. Describe analysis of fish growth with the help of scale and vertebra. 2+5

**GROUP-B**

4. Answer any *three* questions from the following: 2×3 = 6
- (a) Comment on merits and demerits of capture fishery.
  - (b) Mention the scientific names of two catfishes of Ganga river system.
  - (c) What is minor carp? Give example.
  - (d) What is EEZ? Mention its relevance in marine fishery.
  - (e) Distinguish between offshore and inshore fishery.
  - (f) Name two Coldwater lakes of India having fishery importance.
5. Write note on any *one* of the following: 5×1 = 5
- (a) Pelagic fishery
  - (b) Exotic trout
  - (c) Oyster fishery.
6. Answer any *two* questions from the following: 7×2 = 14
- (a) What are the drawbacks of cold-water fishery? Write an account of indigenous cold-water fish resources of India. 2+5
  - (b) Distinguish between Brackish water and Backwater. Give an account of fishery importance of Kerala backwater. 2+5
  - (c) Write an account of Tuna fishery. Comment on its discontinuous distribution. 5+2
  - (d) What is the significance of closed season and mesh size regulation in the conservation of marine fishery resources? Comment on problems of Lacustrine fishery. 5+2

**N.B. :** *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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