



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

INDUSTRIAL FISH AND FISHERIES

PAPER: IFFV-III

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 food chain and food web.
 - (b) What is advantage of raceway culture?
 - (c) What is Probiotics?
 - (d) What is induced breeding?
 - (e) Describe advantages and disadvantages of pen culture.
 - (f) Distinguish between fry and fingerling stage of IMC.

2. Write notes on any **one** of the following: 5×1= 5
 - (a) Riverine fish seed collection
 - (b) Role of pheromones in fish
 - (c) Cage culture.

3. Answer any **two** questions from the following: 7×2 = 14
 - (a) What is bundh breeding? Describe different types of bundh. Write its advantages and disadvantages. 2+3+2
 - (b) Describe the significance of monosex and sterile fish in aquaculture. 7
 - (c) What is the principle of integrated fish culture? Describe the methods of transportation of brood fish. 3+4
 - (d) Describe the method of pituitary extract preparation for induced breeding technique of fish. Mention the factors affecting spawning in IMC. 4+3

GROUP-B

4. Answer any **three** questions from the following: 2×3 = 6
 - (a) What is the role of natural fish food in pond culture?
 - (b) Mention industrial value of seaweeds.

- (c) What is algal bloom?
- (d) What is eye stalk ablation in prawn?
- (e) Write the importance of mohua oil cake in pond preparation.
- (f) Write the scientific name one each of edible oyster and pearl oyster of India.

5. Write notes on any **one** of the following: 5×1= 5

- (a) Life cycle of fresh water prawn
- (b) Pearson method of feed formulation
- (c) Culture techniques of pearl spot.

6. Answer any **two** questions from the following: 7×2 = 14

- (a) Mention different steps for the production of cultured pearl. Describe the nucleus implantation technique in pearl culture. 3+4
- (b) Describe the sources and role of minerals and vitamins in fish feed. 7
- (c) Briefly describe the hatchery technology of seed production in *Penaeus monodon*. 7
- (d) Write briefly the different culture methods of Seaweeds in India. 7

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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