



**WEST BENGAL STATE UNIVERSITY**  
B.Sc. Honours 3rd Semester Examination, 2020, held in 2021

**IFFACOR06T-INDUSTRIAL FISH AND FISHERIES (CC6)**

Time Allotted: 2 Hours

Full Marks: 40

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

1. Answer any **seven** questions from the following: 2×7 = 14
- (a) What are anti-nutritional factors?
  - (b) What are the drawbacks of farm made feed?
  - (c) Write the detrimental effect due to mould growth in stored feed.
  - (d) What is the role of essential fatty acids in feed stuff?
  - (e) What do you mean by balanced food for fish?
  - (f) What is the difference between extruder and pelletizer?
  - (g) What is the advantage and disadvantage of floating feed over sinking feed?
  - (h) Why chemo attractants are used in feed preparation?
  - (i) Define micro coated and micro bound feed.
2. Write short notes on any **two** of the following: 3×2 = 6
- (a) Role of minerals in fish feed
  - (b) Prevention of spoilage during storage of feed stuff
  - (c) Michaelis-Menten Equation
  - (d) Conjugated and derived proteins.
3. Answer any **four** questions from the following: 5×4 = 20
- (a) What is Pearson's method for feed formulation? Formulate a feed by this method using rice bran (22% protein) and Cotton seed meal (55% protein) where the desired protein percentage will be 31%. 1+4
  - (b) What are immunostimulants? Name two immunostimulant and their role in fish feed. 2+3
  - (c) Briefly classify enzymes on the basis of their function with example. 5
  - (d) What is rancidity? Give an account of essential amino acids. 1+4
  - (e) Classify carbohydrate with example. What is glycosidic bond? 4+1
  - (f) Write an account of physical properties of fish feed. 5

**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.*

—x—