



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.*

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