



**WEST BENGAL STATE UNIVERSITY**  
B.Sc. Honours 5th Semester Examination, 2021-22

**IFFADSE01T-INDUSTRIAL FISH AND FISHERIES (DSE1/2)**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate marks of question.  
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) Name two feed ingredients from plant origin and mention their protein concentration.
  - (b) What are the different types of feed?
  - (c) Name two essential amino acids used in fish feed preparation.
  - (d) What is the advantage of using pelleted feed?
  - (e) What is complete diet?
  - (f) Give two examples each of fat-soluble and water-soluble vitamins.
  - (g) Mention the role of minerals in fish diet.
  - (h) What is the basic principle of using demand feeder and automatic feeder?
  - (i) What do you mean by Net Protein Utilization?
2. Write short notes on any **two** of the following: 3×2 = 6
- (a) Advantage and disadvantage of farm-made feed
  - (b) Role of vitamins on fish nutrition
  - (c) Detrimental influence of mould growth in storage of feed
  - (d) Vitamin B<sub>1</sub> deficiency disease in fish.
3. Answer any **four** questions from the following: 5×4 = 20
- (a) Briefly describe the steps to prepare artificial feed. 5
  - (b) Write the factors that affect insect pest infestation in feed stuff. 5
  - (c) Write an account of preservatives and antioxidants in storage of fish feed. 5
  - (d) What is feed additives? Briefly describe the role of amino acids and vitamins as feed additives. 1+2+2
  - (e) Briefly describe the feed distribution and frequency of feeding. Write notes on feed dispensing technique in culture pond. 1+1+3
  - (f) Briefly describe the role of live foods in fish rearing. 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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