

Total Pages : 3

B.F.Sc./3rd Sem/25

2025

3rd Semester Examination

4-Years B.F.Sc.

Paper : BFSC-304

(Fish Food Organisms)



Full Marks : 50

Time : Two Hours

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers  
in their own words as far as practicable.*

**Group - A**

1. Answer any **ten** questions :  $2 \times 10 = 20$

(a) Write the name of one zooplankton and one phytoplankton used as live feed for fish larvae culture.

(b) Write the composition of any live feed organism.

(c) Give two problems faced for algal culture.

(d) Define the term 'Picoplankton' and 'Meroplankton'.

(e) What do you mean by forage fish?

(f) Write the characteristics of diatoms. Give two examples.

P.T.O.



( 2 )

(g) State the important characteristics of a good algal culture medium.

(h) Classify plankton based on their life cycle.

(i) Write two important cladocerans used as live feed for aquaculture.

(j) Which live feed organisms are known for high lipid content beneficial for larval fish?

(k) Name two indicator organisms used to assess live feed quality.

(l) Mention two disadvantages of using tubifex as live feed.

(m) State a microorganism that commonly contaminates live feed cultures.

(n) How does overfeeding affect water quality in live food tanks?

(o) Write the scientific names of two copepods used as live fish feed.

### Group - B

2. Answer any six questions :

5×6=30

(a) Explain the culture methods for infusoria in larval rearing ponds.

(b) Write the culture method of spirulina.



( 3 )

(c) Explain the role of rotifers as live food in early fish larval stages.

(d) What are the challenges of culturing microalgae for aquaculture?

(e) Write the importance of chironomid larvae. How are they cultured for using as fish feed?

(f) Explain the recent advances and challenges in live feed production and enrichment for aquaculture.

(g) Discuss the importance of tubifex as live feed in ornamental fish. Write the tubifex culture procedure.

2+3

(h) Justify the statement—'Aquatic insects are good food source of fish'.

(i) Discuss the importance of earthworm as live feed. State the life cycle of any common earthworm.

2+3

(j) Describe the life cycle and culture methodology of brine shrimp.

---