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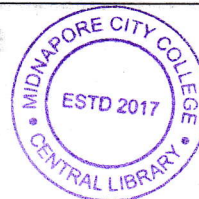
PG CBCS
M.Sc. Semester- III Examination, 2022
FISHERIES SCIENCE
PAPER: FSC 303

Full Marks: 40

Time: 2 Hours

Write the answer for each unit in separate sheet

UNIT: FSC-303.1

AQUACULTURE PRACTICESF.M.: 20GROUP-A1. Answer any **TWO** from the following questions:

2×2=4

- a) Write the scientific name and common name of one finfish and shell fish having aquaculture importance.
- b) What is the importance of live feed in aquaculture?
- c) Write the names of two important marine mollusk having fisheries importance.
- d) Briefly explain the problems of fish trading in West Bengal.

GROUP-B2. Answer any **TWO** from the following questions:

2×4=8

- a) Describe the scope of aquaculture in West Bengal.
- b) Write down the problems of coastal aquaculture in India.
- c) Describe the seaweed farming practices in India.

GROUP-C3. Answer any **ONE** from the following questions:

1×8=8

- a) Define pond fishery. Give a brief account of pond fishery in West Bengal.
(2+6)
- b) Write a brief note on ornamental fish farming in West Bengal. Add a note on advantages of ornamental fish farming.
(5+3)

(P.T.O.)

UNIT: FSC-303.2
FISH NUTRITION & BIOENERGETICS

F.M.: 20

GROUP-A



4. Answer any TWO of the following questions:

2×2=4

- a) What do you mean by PER?
- b) What are the major factors affecting bioenergetics in fish?
- c) State the energy flow diagram in aquatic organism
- d) Why protein is very important in fish nutrition?

GROUP-B

5. Answer any TWO of the following questions:

2×4=8

- a) What are the fat soluble vitamins? Write down the functions of two fat soluble vitamins in fish.
- b) Write a short note on the antioxidant in fish food.
- c) What is feeding stimulant? Give two examples.

GROUP-C

6. Answer any ONE of the following questions:

1×8=8

- a) Suppose rice bran (8.2%) and soybean meals (44%) are available as feedstuffs to prepare a diet for carp that was 27% crude protein. Calculate the amount of rice bran and soybean meals required to make 100 kg., of total feed by Pearson square method.
- b) Write short notes on – (4+4)
 - i) Discuss the digestion process in fish.
 - ii) Automatic feeder.
