Roll No......................   Total No. of Units   : 04
                                                 Total No. of Printed Pages : 03

Code No. : 04/405

Fourth Semester Examination, May 2019

M.Sc. ZOOLOGY

Paper - IV

FISHERIES AND AQUACULTURE

Time : 3 Hrs.   **Max. Marks : 80**

- Part A and B of each question in each unit consist of very short answer type questions which are to be answered in one or two sentences.
  Part C (Short answer type) of each question should be answered in 200-250 words.
- Part D (Long answer type) of each question should be answered within the word limit 400-450.

Unit - I

Q.1 A. Write identification features of Puntus.   **(2)**

Q.1 B. Write fin formula of Channa punctatus.   **(2)**

Q.1 C. Write advantages of Induced breeding.   **(4)**

OR

How many zones of vegetation are found in ponds? Give their names with examples.

Q.1 D. Discuss about hatcheries, types and their utilization.   **(12)**

OR

Write note on construction and maintainance of fish farm.

P.T.O.

Unit - II

Q.2 A. Compare fertilized and unfertilized eggs.   **(2)**

Q.2 B. Give names of any four fishes cultured in rice field and their habit.   **(2)**

Q.2 C. Write characteristic features of sewage fish farming.   **(4)**

OR

What is polyculture? Explain.

Q.2 D. Discuss about method of transportation and stocking of fish seed and brood fish.   **(12)**

OR

Explain different types of gears, crafts & nets used for fishing.

Unit - III

Q.3 A. Write causes of spoilage of fishes.   **(2)**

Q.3 B. Give names of any two protozoan diseases of fishes.   **(2)**

Q.3 C. Write short note on larvicidal fishes.   **(4)**

OR

Explain the process of preservation of fish for long time.

Q.3 D. Discuss about fish diseases and their control.   **(12)**

OR

Explain intensive culture of air breathing fishes.

Unit - IV

Q.4 A. What is marketing in fishery sectors?   **(2)**

Q.4 B. What is prawn processing?   **(2)**

Q.4 C. Discuss briefly pearl culture technique.   **(4)**

OR

Give nutritional significance of fish as food.

Q.4 D. Write an account on economic value of fishes.   **(12)**

OR

Write a detailed account on setting up a home aquarium.

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