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PG/2nd Sem/FSC/19

2019

M.Sc.

2nd Semester Examination

FISHERIES SCIENCE

Paper - FSC 204

Full Marks : 40

Time : 2 Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Unit - 1

(Fundamentals of Fisheries Science)

1. Write briefly any *two* questions of the following :

2×2=4

- (a) State the typical characteristics of fishes.
- (b) Write down the causes of declining trend of riverine fish stock.
- (c) What is living fossil ? Give example from fish.
- (d) What is pokkali fish culture ?

[Turn Over]

2. Answer any *two* questions of the following :

2×4=8

- (a) Give an idea about the morphometry study of a fish.
- (b) Discuss suitable management practices to enhance fisheries in small reservoir.
- (c) Briefly narrate the advantages and disadvantages of paddy cum fish culture.
- (d) Give an over view of fisheries in West Bengal.

3. Answer any *one* question of the following : 1×8=8

- (a) (i) State the basic concept of aquaculture vs agriculture.
 - (ii) What are the challenges faced by inland aquaculture ?
 - (iii) Add a note on fisheries resources in India.
3+3+2
- (b) (i) Differentiate chondrichthyes from osteichthyes.
 - (ii) Mention characteristics feature and examples (two) of following order of fishes — cypriniformes, Siluriformes.

(3)

- (iii) Add a note on the origin of modern aquaculture. 2+4+2

Unit - 2

(Aquaculture Management)

4. Answer any *two* questions from the following :

2×2=4

- (a) What is cage culture ?
- (b) How would you control the aquatic macrophytes ?
- (c) Write a brief note on natural fish food.
- (d) Mention the important characteristics of ornamental fishes.

5. Answer any *two* questions from the following :

2×4=8

- (a) Write a note on intensification of aquaculture system.
- (b) Briefly explain pre-stocking management of fish pond.
- (c) State the advantages and disadvantages of pen-culture system.

[Turn Over]

(d) Classify ornamental fishes on the basis of spawning habit with examples.

6. Answer any *one* question from the following :

1×8=8

- (a) (i) What are the criteria to be considered before selecting a suitable site for cage culture ? 2
- (ii) Briefly discuss on composite fish culture. 4
- (iii) Briefly explain the health problems in sewage-fed fish. 2
- (b) (i) What do you mean by indigenous and exotic ornamental fishes ? Cite two examples from each. 2+2
- (ii) Make a list of ornamental objects used in home aquarium. 4
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