

M.Sc. 3rd Semester Examination, 2019

FISHERIES SCIENCE

PAPER – FSC-304(CBCS)

Full Marks : 40

Time : 2 hours

The figures in the right hand margin indicate marks

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

Illustrate the answers wherever necessary

Write the answers to questions of each Unit in separate books

UNIT – I

(Aquaculture Technology)

1. Answer any two questions : 2 × 2
- (a) Enlist name of fishing vessel used in Tamilnadu coast.
- (b) Write a brief note on transgenic fish.

(c) State the disadvantages of hypophysation technique used for fish breeding.

(d) Enlist four value added products prepared from fish.

2. Answer any *two* questions : 4 × 2

(a) Briefly describe different gears used in fishing of West Bengal.

(b) Briefly discuss on hybridization of fish with suitable example.

(c) How to prepare the fish pickle from prawn ?

(d) Describe the reproductive cycle of a tropical fish.

3. Answer any *one* from the following : 8 × 1

(a) (i) What is active fishing ?

(ii) Briefly describe the mechanism of trawling.

(iii) Define fish by-products. Enlist the fish by-products. 1 + 3 + 4

- (b) Short notes on (any *four*) : 2 × 4
- (i) Bundh breeding
 - (ii) Safety measures for fishing
 - (iii) Isinglass
 - (iv) Uses of fish-meal
 - (v) Inducing hormone
 - (vi) Maintenance of fishing gears.

UNIT – II

(Fisheries Entrepreneurship Development)

4. Answer any *two* of the following questions : 2 × 2
- (a) Mention the objective of fisheries extension.
 - (b) Name four institute involve in fisheries research and education.
 - (c) Enlist different Central Government Scheme related to fisheries.
 - (d) Mention the objective of the Coastal Aquaculture Authority Act, 2005.

5. Answer any *two* questions from the following : 4×2
- (a) Discuss the different principles of fisheries extension.
 - (b) How development in fishery can contribute the rural development ?
 - (c) Write a note highlighting Indian Fisheries Act, 1897.
 - (d) Briefly explain the role of fisheries co-operative.
6. Answer any *one* question from the following : 8×1
- (a) (i) What do you mean by extension education ?
 - (ii) Discuss the different extension teaching method in fisheries.
 - (iii) Add a note on SCR scheme. $2 + 4 + 2$
- (b) Write notes on any *two* of the following : 4×2
- (i) Write a note on Merchant Shipping Act, 1958.

- (ii) Discuss briefly on Development of Model Fishermen Villages.
 - (iii) Give an account of setting up of a carp hatchery project.
 - (iv) State about Trickle Down System (TDS) of aquaculture extention.
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