

Total Pages—4

PG/IIIS/FSC-304/18(CBCS)

M.Sc. 3rd Semester Examination, 2018

FISHERIES SCIENCE

PAPER – FSC-304(Unit-I & II)

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

UNIT – I

1. Answer any *two* questions from the following : 2×2
 - (a) Discuss the factors which affect fishing gear design.
 - (b) Enlist different by-products prepared from fish.
 - (c) What are the uses of chitin ?

(Turn Over)

(d) Enlist fishing vessels which are used in the coast of Maharashtra.

2. Answer any *two* questions from following : 4×2

(a) Briefly explain different passive fishing gears with examples. 4

(b) Narrate the different nutrient compositions found in muscles of Indian major carp. 4

(c) Briefly discuss on inter-generic hybridization in Indian major carps. 4

(d) Show different parts of pituitary gland in a schematic diagram and mention the name of their secretions. $2 + 2$

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

(a) (i) What is anchor ?

(ii) Briefly describe different types of anchor used in fishing vessels.

(iii) Add a note on Turtle Excluder Device (TED). $1 + 4 + 3$

- (b) Short notes (any two) : 4×2
- (i) Methods of fish-meal preparation 4
 - (ii) Preparation of fish pickle 4
 - (iii) Ovarian follicle and GnRH $2 + 2$
 - (iv) Testicular cycle of a tropical fish and
bunth breeding. $2 + 2$

UNIT – II

(Fisheries Entrepreneurship Development)

4. Answer any two of the following questions : 2×2
- (a) Enlist the name of different central Govt. sponsored fisheries institutes.
 - (b) State the reasons for the failures of fishermen's cooperatives.
 - (c) What are the roles of NGO in fisheries sector ?
 - (d) Define Fisheries Extension.

5. Answer any *two* of the following : 4 × 2

(a) Discuss about the present status of fisheries education in India.

(b) Briefly explain different national schemes for the welfare of fishermen

(c) Discuss different objectives of fisheries extension.

(d) What are the objectives for development and management of fisheries and aquacultures in 12th five-year-plan ?

6. Answer any *one* of the following : 8 × 1

(a) State about different extension teaching method. Add a note on the role of KVK in fisheries extension. 4 + 4

(b) (i) Discuss the employment potentiality in the fisheries sector of India.

(ii) Briefly write on the basic principles of fisheries extension. 4 + 4