1/EH-36 (i) (Syllabus-2015)

2022

(November)

FISHERY SCIENCE (Elective/Honours)

FIRST PAPER (Paper—1A)

(Fish Biology and Taxonomy)

Marks : 56

Time: 3 hours

The figures in the margin indicate full marks for the questions

Answer Question No. 1 which is compulsory and any four from the rest

- 1. Write short notes on any three of the following: 4×3=12
 - (a) Non-swimming locomotion
 - (b) Significance of colouration in fish
 - (c) Functions of sense of smell in fish
 - (d) Types of scales
 - (e) Characteristic of family Cyprinidae with example

- 2. Give a detailed account on the process of fish evolution with suitable examples. 11
- 3. Describe in detail the diversity of body forms in fish and discuss compensation factors. 7+4=11

4. Describe the following:

5+6=11

- (a) Structure and function of gills
- (b) Accessory respiratory organs in fish
- 5. Describe the lateral-line system, and the structure and function of the neuromast organ in fish. 4+5+2=11

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6. Describe the following:

5+6=11

- (a) Structure and origin of electric organs in fish Mark State Control
- (b) Mechanism of electric discharge in fish

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7. Discuss the following:

6+5=11

- (a) Structure and functions of photophores
- (b) Significance of poison glands in fish

- 8. Write short notes on any two of the 5½×2=11 following:
 - (a) Speciation in fish
 - (b) Basic concepts of skeletal system in fish
 - Sense of taste in fish

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