

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

**2 0 1 7**

**( October )**

**FISHERY SCIENCE**

**( Honours )**

**FIRST PAPER (Paper—1A)**

**( Fish Biology and Taxonomy )**

**( Theory )**

*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) Importance of fishery science*
- (b) Diversity of body forms in fish*
- (c) Significance of colouration in fish*
- (d) Cutaneous senses in fish*
- (e) Mechanism of electric discharge in fish*

**( Turn Over )**

( 2 )

2. Discuss the role of muscles and fins in locomotion of fish. 5+6=11
3. Describe the following :
- (a) Structure and function of gills 5
  - (b) Accessory respiratory organs in fish 6
4. Discuss the following :
- (a) Types of pigments in fish 5
  - (b) Basic concepts of the skeletal system in fish 6
5. Differentiate between the following :
- (a) Peripheral and Autonomic nervous systems 6
  - (b) Ichthyocanthotoxism and Ichthyosarcotoxism 5
6. Describe the following :
- (a) Structure and function of photophores 6
  - (b) Neuromast organs 5
7. Describe the different fin types with their functions and structural modifications. 11

8D/33

( Continued )

( 3 )

8. Write short notes on any two of the following : 5½×2=11

- (a) Affinities of fishes
- (b) Types of scales
- (c) Compensation factors

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8D—200/33

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