

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

2018

(October)

FISHERY SCIENCE

(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) Salient features in evolution of fishes
- (b) Compensation factors
- (c) Accessory respiratory organs
- (d) Neuromast organs
- (e) Different types of scales

(2)

2. Discuss the diversity of body forms found in fishes and describe the different fins and their modifications. 5+6=11

3. Describe the following : 5+6=11

(a) Origin of paired fins

(b) Locomotion with the help of muscles

4. Discuss the following : 5+6=11

(a) Significance of colouration

(b) Function of the digestive system in fish

5. Differentiate between the following : 5+6=11

(a) Fin fish and Shellfish

(b) Central and Peripheral nervous system

6. Describe the following : 6+5=11

(a) Structure and origin of electric organs in fish

(b) Poison glands

7. Describe the structure and function of the heart of fish. 11

D9/17

(Continued)

(3)

8. Write short notes on any two of the following : $5\frac{1}{2} \times 2 = 11$

(a) Basic concepts of skeletal system

(b) Cutaneous senses

(c) Photophores

D9-200/17

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