

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

2016

(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) Evolution of fishes
- (b) Types of fins and their functions
- (c) Accessory respiratory organs
- (d) Autonomic nervous system
- (e) Significance of electric organs

(2)

2. Describe in detail the diversity of body form in fish and discuss compensation factors. 7+4=11
3. Write an account of the following :
- (a) Structure, function and significance of photophores 7
 - (b) Sense of hearing and sight 4
4. Discuss the following :
- (a) Origin of paired fins 6
 - (b) Neuromast organs 5
5. Describe the following :
- (a) Central nervous system 6
 - (b) Poison glands in fish 5
6. Describe the following :
- (a) Structure and function of kidney 6
 - (b) Types of pigments 5
7. Discuss locomotion in fish with special reference to muscle and fins. 5+6=11

(3)

8. Write short notes on any two of the following : $5\frac{1}{2} \times 2 = 11$
- (a) Basic concept of skeletal system
 - (b) Fin modifications
 - (c) Importance of Fishery Science
