

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BPF-2192

M.Sc. (Final) Examination, 2022

ZOOLOGY

Paper - VII(d)

(Fish Biology)

Time : 3 Hours]

[Maximum Marks : 75

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section-B

(Marks : 5 × 5 = 25)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **5** marks.

Section-C

(Marks : 10 × 3 = 30)

Note :- Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

Section-A

1. (i) Write names of oldest living fishes.
- (ii) What is basis of Berg's classification ?

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- (iii) Give names of agnatha species of superclass pisces.
- (iv) What is potamodromous fish migration ?
- (v) What is Fingerlings ?
- (vi) What is diphyccercal fins ?
- (vii) What is corpuscles of stannius ?
- (viii) Give names of components of musculoskeletal system.
- (ix) What is function of chloride cell of fishes ?
- (x) Give names of components of neuromast cell.

Section–B

Unit–I

2. Write a note on freshwater origin of vertebrates.

Or

Give a note on causes of extinction of ostracoderm fishes.

Unit–II

3. Write a note on characteristics of body form of chondrichthyes fishes.

Or

Explain in brief about origin and structure of placoid scales.

Unit–III

4. Write a note on structure and modifications of caudal fins.

Or

Give a note on theory of origin of paired fins.

Unit–IV

5. Write a note on role and structure of Weberian apparatus in fishes.

Or

Give a note on physiology of the swim bladder.

Unit-V

6. Write a note on lateral line of fishes.

Or

Give a note on viviparity of fishes.

Section-C

7. Describe in detail about fish classification given by Romer.
8. Describe in detail about fish scales and their origin and significances.
9. Give a detailed note on musculature in fishes.
10. Write a detailed note on structure and function of teleosts.
11. Give a detailed note on reproductive behaviour and developmental stages of fishes.