

Roll No :

Total No. of Questions : 11]

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SP-670

M.Sc. (Final) Examination, 2021

ZOOLOGY

Paper - VII (d)

(Fish Biology)

Time : 1½ Hours]

[Maximum Marks : 75

Section-A

(Marks : 2 × 10 = 20)

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

(खण्ड-अ)

(अंक : 2 × 10 = 20)

नोट :- सभी दस प्रश्नों के उत्तर दीजिए (उत्तर-सीमा 50 शब्द)। प्रत्येक प्रश्न 2 अंक का है।

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.

(खण्ड-ब)

(अंक : 5 × 5 = 25)

नोट :- सभी पाँच प्रश्नों के उत्तर दीजिए। प्रत्येक प्रश्न में विकल्प का चयन कीजिए (उत्तर-सीमा 200 शब्द)। प्रत्येक प्रश्न 5 अंक का है।

Section-C

(Marks : 10 × 3 = 30)

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

(खण्ड-स)

(अंक : 10 × 3 = 30)

नोट :- पाँच में से किन्हीं तीन प्रश्नों के उत्तर दीजिए (उत्तर-सीमा 500 शब्द)। प्रत्येक प्रश्न 10 अंक का है।

BI-311

(1)

SP-670 P.T.O.

Section–A

2 each

1. Attempt all *ten* questions.
 - (i) Write the names of any *four* placoderm fishes.
 - (ii) What is the common name of Dipnoi fishes ?
 - (iii) What is Anguilliform locomotion ?
 - (iv) Write the names of any *four* freshwater fishes of India.
 - (v) Write the function of adipose fin.
 - (vi) Draw the pectoral fin of fish.
 - (vii) Define Planktivorous.
 - (viii) Write the function of Swim bladder ?
 - (ix) What is Chemoreception ?
 - (x) What is Viviparity ?

Section–B

Unit–I

5 each

2. Describe the classification and characters of fishes.

Or

Write note on origin and adaptive radiation in fishes.

Unit–II

3. Describe the types and functions of scales in fishes.

Or

Describe the fish's locomotion.

Unit–III

4. Describe the musculature system in fishes.

Or

Describe the types and functions of fins.

Unit-IV

5. Describe the Weberian apparatus in fishes.

Or

Describe the physiology of digestion in fishes.

Unit-V

6. Write note on osmoregulation in fishes.

Or

Describe the excretory organ and physiology of excretion in fishes.

Section-C

10 each

7. Describe the characters and affinities of Teleostei.
8. Write about the geographical distribution of fishes.
9. Describe the theories of origin of fins.
10. Describe the blood vascular system in fishes.
11. Describe the nervous system in fishes.