

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BFMS-416

M.Sc. (Final) Examination, 2023

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) What are Gnathostomes ?

(ii) What are Lung Fishes ?

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- (iii) Why the body of fish is streamlined ?
- (iv) What are Photophores in Fishes ?
- (v) What is Homocercal Tail ?
- (vi) What is the function of Dorsal Fin ?
- (vii) What are Gill Rakers ?
- (viii) What are Euriphagic Fishes ?
- (ix) Define Fecundity.
- (x) Differentiate Planktonic Egg and Demersal Egg.

Section-B

2. Write a note on Placoderms.

Or

Describe the affinities of Holocephali.

3. Write a note on Bony-Ridge Scale.

Or

Describe the types of Locomotion in Fishes.

4. Describe the different types of Caudal Fin in Fishes.

Or

Explain in brief the fin fold theory for origin of paired fins in Fishes.

5. Describe the afferent and efferent branchial blood vessels in Scoliodon.

Or

Describe the functions of Swim Bladder in Fishes.

6. Describe the Larval (hatching) and Post Larval Development in Fishes.

Or

Write a note on Chemosensory Organs in Fishes.

Section–C

7. Describe the characters, classification and affinities of Dipnoi.
8. Give a detailed account on the structure and functions of Skin in Fishes.
9. Describe the appendicular skeleton in Fishes.
10. Describe the modifications in digestive tract of Fishes.
11. Give in detail the structure and functions of Pituitary Gland in Fishes.