

Code No. : B03/305

- (B) Write two name of viviparous fishes. 2
- (C) Describe in brief the special types of neuromasts found in fishes. 4

Or

Describe in brief the photoreceptor organ in fish.

- (D) Give an account of peripheral nervous system in teleost fishes. 12

Or

Explain the female reproductive organs in teleost fishes.



Roll No.

Total No. of Sections : 4

Total No. of Printed Pages : 4

Code No. : B03/305

III Semester Examination

M.Sc.

ZOOLOGY

Paper III

[Ichthyology]

Time : Three Hours]

[Maximum Marks : 80

[Min. Passing Marks : 16

Note : Part A and B of each question in each unit consists of Very Short Answer Type Questions which are to be answered in one or two sentences. Part C (Short Answer Type) of each question will be answered 200-250 words. Part D (Long Answer Type) of each question should be answered within the word limit 400-450.

Unit-I

1. (A) Write two main characters of ostracoderm. 2
- (B) Give two comparative key characters of chondrichthyes and osteichthyes. 2
- (C) Describe the external features of Dipnoi. 4

Code No. : B03/305

Or

Give the phlogeny of Teleostomii.

(D) Discuss the affinities of Holocephli. **12**

Or

Give the general characters and classification of Elasmobranchii.

Unit-II

2. (A) Give the name of two pigments which provide colour in fishes. **2**

(B) Give the name of two flying fishes. **2**

(C) Describe in brief different epidermal glands in fishes. **4**

Or

Write in brief about placoid scale.

(D) Given an account of appendicular skeleton of fish. **12**

Or

Give an account of different adaptive modifications in the digestive tract in fishes.

Code No. : B03/305

Unit-III

3. (A) Give the name of two waste products secreted by fish gills. **2**

(B) Give the name of two fishes having external gills. **2**

(C) Describe in brief the structure of holobranch gill. **4**

Or

Describe in brief the structure of the heart of elasmobranch fish.

(D) Explain the various accessory respiratory organs of fishes. **12**

Or

Describe the process of osmoregulation in the marine teleost fishes.

Unit-IV

4. (A) Mention two name of amino acids present in Luciferin. **2**