

**19P411**

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Name: .....

Reg. No.....

**FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2021**

(CBCSS-PG)

**CC19P ZO4 E10 - FISHERY SCIENCE I**

(Zoology - Elective Course)

(2019 Admission - Regular)

Time: Three Hours

Maximum: 30 Weightage

I. Answer any *four* questions.

1. Taxonomic features of fishes belonging to Mugilidae and Channidae.
2. Modification of fins and their specific functions in fishes.
3. Explain reproductive behaviour in fishes.
4. Describe the role of digestive enzymes in fish.
5. Ecological significance of coral reefs.
6. Enlist the physico-chemical properties of brackish water.
7. Enumerate the adaptations of deep sea fishes and cave fishes.

**(4 x 2 = 8 Weightage)**

II. Answer any *four* questions.

8. Describe productivity of estuaries and its significance.
9. Explain ecological subdivisions of the sea.
10. Discuss about the neuroendocrine system in crustaceans.
11. Explain the mechanism of osmoregulation in marine, estuarine and freshwater fishes.
12. Describe the accessory air breathing organs in fishes.
13. Compare and contrast the taxonomic features of siluridae, claridae and heteropneustidae.
14. Explain the mechanism of fish migration.

**(4 x 3 = 12 Weightage)**

III. Answer any *two* questions.

15. Discuss on the age determination and growth mechanisms in fishes
16. Write an essay on the classification of inland water bodies and their fishery value.
17. Describe the heart and composition of blood in fishes and add a note on the mechanism of circulation.
18. Explain ocean and estuarine productivity and factors governing it.

**(2 x 5 = 10 Weightage)**

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