18P411 (Pages: 2) Name…….……

Reg. No……..

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2020

(CUCSS - PG)

CC17P ZO4 E10 - FISIIERY SCIENCE I : TAXONOMY, BIOLOGY, PHYSIOLOGY AND ECOLOGY

(Zoology)

(2017 Admission onwards)

Time: Three Hours Maximum: 36 Weightage

I. Answer ***all*** questions. Each question carries 1 weightage.

1. Differentiate between euryhaline and stenohaline fishes.
2. Ornamental fishes in association with coral reefs.
3. Littoral zones of sea.
4. Adaptations of deep sea fishes.
5. Important endocrine glands in fishes.
6. Structure and secretions of ovary in fish.
7. Mechanism of propulsion in fish.
8. Feeding adaptations of carnivorous fishes.
9. Role of intestinal enzymes in digestion.
10. Differentiate between catadromous and anadromous fish migration.
11. Ovoviviparity in fishes.
12. Structure of gill in fish.
13. Salient features of family Mugilidae with an example.
14. Productivity of estuaries.

(14 x 1 = 14 Weightage)

II. Answer any ***seven*** questions. Each question carries 2 weightage.

15. Limnological peculiarities of lakes.
16. Reproductive behaviour in fishes.
17. Different types of feeding mechanisms.
18. Circulatory system in fishes.
19. Structure of heart in fish.
20. Mechanism of osmoregulation in marine and freshwater fishes.
21. Ecological significance of estuarine waters.
22. Ocean productivity.
23. Ecological subdivisions of sea.

24. Accessory air breathing organs in fish.

(7 x 2 = 14 Weightage)

III. Answer any ***two*** questions. Each question carries 4 weightage.

25. Explain the general bio-ecology of fishes.
26. Explain the structure and functions of scales and fins in fishes.
27. Write an essay on salient features of family Siluridae, Carangidae, Cichlidae and Channidae with examples of economic importance.
28. Explain the mechanism of reproduction and role of reproductive hormones in fishes.

(2 x 4 = 8 Weightage)

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