

17P418

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Name.....

Reg.No.....

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2019

(CUCSS - PG)

(Zoology)

**CC17P ZO4 E10 - FISHERY SCIENCE – I, TAXONOMY, BIOLOGY,
PHYSIOLOGY & ECOLOGY**

(2017 Admission Regular)

Time: Three Hours

Maximum: 36 Weightage

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

1. Salient features of family cyprinidae with an example.
2. Fish chromatophores.
3. Functions of fish fins.
4. Oviparity.
5. Catadromous migration and its significance.
6. Gastric enzymes in fish.
7. Food and feeding of herbivorous fishes.
8. Explain labyrinthine organ.
9. Secretions and functions of pituitary gland.
10. X organs and functions in crustaceans.
11. Ecological adaptations of cave fishes.
12. Differentiate between continental shelf and slope.
13. Ecological significance of coral reefs.
14. Salinity and its significance in the life of fish.

(14 x 1 = 14 Weightage)

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

15. Limnological peculiarities of reservoirs.
16. Physico-chemical properties of inland waters.
17. Ocean currents.
18. Coral reef ecosystem.
19. Crustacean neurosecretory system.
20. Regulation of endocrine secretion in fishes.
21. Structure of excretory organs in fishes.
22. Composition of blood and its functions in fish.
23. Food and feeding mechanism in fish.

24. Age and growth in fishes.

(7 x 2 = 14 Weightage)

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

25. Elucidate the characteristics, ecological significance and productivity of estuarine waters.

26. Describe the adaptive physiology of deep sea fishes, cave fishes and hill stream fishes.

27. Explain the structure of gills, mechanism of respiration and accessory air breathing organs in fishes.

28. Describe the body shape, musculature and mechanism of propulsion in fish.

(2 x 4 = 8 Weightage)
