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Name..... 23

Reg. No.....

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION  
DECEMBER 2014**

(CUCSS)

Zoology

Fisheries Science – I

ZO 3ET 08 – TAXONOMY, BIOLOGY, PHYSIOLOGY AND ECOLOGY

Time : Three Hours

Maximum : 36 Weightage

I. Answer all *fourteen* questions :

1. Integument colouration.
2. Economically important estuarine fishes.
3. Chromatophores.
4. Economically important shell fishes.
5. Skin of fishes.
6. Nutritional requirement of fish.
7. Functions of blood.
8. Significance of waves in nutrient cycling.
9. Osmoregulation in freshwater fishes.
10. Oviparity in fishes.
11. Heart of fish.
12. Transport of gas in blood.
13. Neuro-Endocrine secretion.
14. Fin modifications.

(14 × 1 = 14 weightage)

II. Answer any *seven* of the following :

15. Ecological problems of coral reef.
16. The biology of estuarine fishes.
17. Phytoplankton productivity.
18. Excretion in brackish water fishes.
19. Mechanisms of gill respiration.
20. Digestion and absorption of food in fish.

Turn over

21. Physico-chemical properties of inland waters.
22. Ecology of cave dwelling fishes.
23. Cave dwelling fishes.
24. Accessory respiratory organs.

(7 × 2 = 14 weighta

III. Answer any *two* questions :

25. Discuss the importance of endocrine glands and their role in reproduction.
26. Give an account of the general bio-ecology of fishes.
27. Explain the adaptations in ecological subdivisions of the sea.
28. Describe briefly the digestive physiology of fish.

(2 × 4 = 8 weighta