Final Year B.Sc., Degree Examination August/September 2010

(Distance Education)

(Freshers)

ZOOLOGY

Paper - IV: Developmental Biology, Environmental Biology, Ethology, Inland Fisheries and Wild Life Management

Time: 3 hrs]

[Max.Marks: 85

Instructions to Candidates:

- Simple questions should be answered in the first two pages of the main answer book.
- 2. Draw labelled diagrams wherever necessary.

I. Simple Questions.

Answer in a word, phrase or in a sentence:

12 X 1 = 12 Marks

- 1. What is microlecithal egg? Give one example.
- 2. What is Disco blastula? Give one example.
- 3. What are extra-embryonic membranes?
- 4. Define Lentic habitat.
- 5. Define Liebig's law of minimum.
- 6. What is ecological niche?
- 7. What is Innate behaviour? Give one example.
- 8. What is courtship behaviour?
- 9. What is migration?
- 10. What is Inland fisheries?
- 11. What is monoculture? Give one example.
- 12. Define endangered species.

II. Short Answer Questions.

Answer any SIX of the following:

 $6 \times 3 = 18 \text{ Marks}$

- 13. Mention the planes of cleavage.
- 14. Explain briefly structure of gastrula of Amphioxus.
- 15. Mention any six deep sea adaptations.

- 16. Name three National parks of Karnataka.
- 17. Explain parental care in Pipa Americana.
- 18. Explain briefly factors influencing on bird migration.
- 19. Write a note on six fish byproducts.
- 20. Explain importance of wildlife studies.

III. Medium Answer Questions.

Answer any SEVEN of the following:

 $7 \times 5 = 35 \text{ Marks}$

- 21. With a neat labelled diagram describe the development of Neural tube in frog.
- 22. Describe the structure of: a) Chorion b) Amnion
- 23. What are ecological pyramids? Describe briefly ecological pyramids.
- 24. Define ecotone and climatic climax.
- 25. Explain the Anadromons migration in fish with a suitable example.
- 26. Explain courtship behaviour in Seahorse and Aurius.
- 27. Explain briefly culturing of carps.
- 28. Describe different methods of wild life conservation.
- 29. Give an account of setting up of National parks.

IV. Long Answer Questions.

Answer any TWO of the following:

2 X 10 = 20 Marks

- **30.** What is placenta? Classify the placenta based on distribution of villi. Mention the four functions of placenta.
- 31. What is pollution? Explain the sources, causes and effects of air pollution.
- 32. Give a detailed account of Birds migration.
- 33. Give an account of: a) Project Tiger b) Project Crocodile

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