

Final Year B.Sc. Degree Examination
November 2009
(Directorate of Distance Education Course)

ZOOLOGY

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

Time : 3 Hours

Max. Marks : 75

Instructions to the Candidates:-

- 1) All questions are compulsory.
- 2) Answer one mark questions in the first two pages of the main answer book.
- 3) Draw diagrams wherever necessary.

I. Simple questions:

10x1=10

1. What is Blastocoel?
2. Name a National park of Karnataka.
3. What is Placenta?
4. What is Oceanodromous migration?
5. Define Edge effect?
6. What is parental care?
7. What are Hapas?
8. Mention an example for Indian Major carp.
9. What is Grey crescent?
10. What is Biomagnification?

II. Short answer questions:

5x3=15

Answer any FIVE of the following:

11. Draw a neat labeled diagram of Gastrula of Frog.
12. Bring out the classification of eggs based on amount of yolk with example.
13. Define : a) Natality b) Niche c) Plankton
14. Discuss the causes and effects of marine pollution.
15. Explain project tiger.

16. Explain zonation of lentic habitat with the help of diagram.
17. What is primary organizer? Give example.

III. Medium answer questions:

5x6=30

Answer any FIVE of the following:

18. Explain the process of gastrulation of chick embryo.
19. Bring out morphological classification of placenta with example.
20. Define food chain? Explain different types of food chains with examples.
21. Define Habitat? Explain salient features of desert habitat and adaptations of desert animals.
22. Explain Anadromous and catadromous fish migration with example.
23. Describe the methods of wild life conservation.
24. Explain techniques of fish culture.

IV. Long answer questions.

2x10=20

Answer any TWO of the following:

25. Describe the sources, causes, effects and controlling measures of air pollution. Add note on green house effect.
26. What is court ship? Describe courtship behaviors in Betta splendons and bower bird. Add a note on significances of courtship behavior.
27. Define cleavage. Explain different patterns of cleavage with examples.
28. Explain the importance of wild life and reasons for wild life depletion.

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