

Q.P. Code – 50831

Final Year B.Sc. Degree Examination

OCTOBER/NOVEMBER 2014

(Directorate of Distance Education)

Zoology

**(DSC 311) Paper IV – DEVELOPMENTAL BIOLOGY,
ENVIRONMENTAL BIOLOGY, ETHOLOGY, INLAND FISHERIES
AND WILD LIFE MANAGEMENT**

Time : 3 Hours]

[Max. Marks : 75/85

Instructions to Candidates :

- 1) *Students who have attended 25 marks I-A scheme will have to answer for total of 75 marks.*
- 2) *Students who have attended 15 marks I-A scheme will have to answer for total of 85 marks.*
- 3) *Simple questions should be answered in first two pages of the answer book.*
- 4) *Draw diagrams wherever necessary.*
- 5) *All questions are **compulsory**.*
- 6) *Question No. V is **compulsory** for 85 marks scheme.*

I. Simple Answer Questions :

Answer in a word or in a phrase or in a sentence :

10 × 1 = 10

1. What is Alecithal egg?
2. Define ecosystem.
3. Name any two national parks of India.
4. Define ecological niche.
5. What is aquaculture?
6. Define innate behaviour.
7. What is oceanodromous migration?
8. Define synecology.
9. What is holoblastic cleavage?
10. Define natality.

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II. Short Answer Questions :

Answer any **FIVE** of the following :

5 × 3 = 15

11. Draw a labelled diagram of Frog's blastula.
12. Explain project tiger.
13. Discuss the effects of noise pollution.
14. Bring out the classification of eggs based on the distribution of yolk.
15. Explain courtship in peacock.
16. What is food chain? Mention the types.
17. Explain the zonation of a pond.

III. Medium Answer Questions :

Answer any **FIVE** of the following :

5 × 6 = 30

18. Give an account of migration in anguilla.
19. With the help of a diagram, explain energy flow in an ecosystem.
20. Describe the methods of wild life conservation.
21. Describe the types of placenta based on distribution of villi.
22. Give an account of culturing of Indian major carps.
23. Describe Speeman's experiment on organiser phenomenon.
24. Write a note on fish by products.

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IV. Long Answer Questions :

Answer any **TWO** of the following :

2 × 10 = 20

25. Explain the importance of wild life and reasons for wild life depletion.
26. Describe the sources, causes, effects and controlling measures of water pollution.
27. Describe the structure, development and functions of foetal membranes in chick.
28. What is parental care? Explain parental care in amphibians.

V. **Compulsory** for **85** marks scheme only :

Answer any **ONE** of the following :

1 × 10 = 10

29. Explain the process of gastrulation in frog with neat labeled diagrams.
 30. With a neat labeled diagram describe the zonation of sea.
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