भारतीय वन सेवा परीक्षा.....2011.....
Indian Forest Services Examination.....

Serial No. 13951 D–VSF–L–MBA

ZOOLOGY

Paper—I

Time Allowed : Three Hours *Maximum Marks : 200*

INSTRUCTIONS

Candidates should attempt questions 1 and 5 which are compulsory, and any THREE of the remaining questions, selecting at least ONE question from each Section.

The number of marks carried by each question is indicated at the end of the question.

Answers must be written in ENGLISH.

Suitable diagrams may be drawn, wherever required.

SECTION—A

1. Write briefly on any **FOUR** of the following :—

   (a) Protostomes and Deuterostomes. 10

   (b) Metagenesis. 10

   (c) Endostyle in lower chordates. 10

   (d) Scales in fish. 10

   (e) Molar teeth in mammals. 10

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2. (a) Describe various types of sexual reproduction in Protozoa. Trace the evolution of sex in the phylum. 20

(b) What are coral reefs and how are they formed ? Discuss critically the reasons for their destruction. 20

3. (a) Give an account of the parasitism in crustaceans citing suitable examples. 20

(b) Describe different types of locomotion in molluscs giving suitable examples. 20

4. (a) Write an account of different types of respiration in fish. 20

(b) Describe with illustrations the salient features of heart in reptiles, birds and mammals. 20

SECTION—B

5. Write notes on any **FOUR** of the following :—

(a) Levels of organisation in biosphere. 10

(b) Imprinting. 10

(c) *Sitophilus oryzae* and its control. 10

(d) Ecotones. 10

(e) Correlation. 10

6. (a) What are populations ? Write various characteristics of population and discuss briefly population stabilization. 20

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(b) Give an elaborate account of environmental biodegradation. Suggest measures for its prevention. 20

7. (a) What is meant by social behaviour ? Write an account of social behaviour in primates. 20

(b) Give an elaborate account of prawn culture in India. 20

8. (a) Explain the role of data analysis in experimental design in biology. Indicate the significance of Students'-t test. 20

(b) Give an account of principle, working and application of flame photometry. 20

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