

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) Protozoans and Deuterostomes. | 10 |
| (b) Metagenesis.                  | 10 |
| (c) Endostyle in lower chordates. | 10 |
| (d) Scales in fish.               | 10 |
| (e) Molar teeth in mammals.       | 10 |

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

- (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

