

Code—23

ZOOLOGY

Time : 3 Hours

Maximum Marks : 150

Note: Attempt any *Five* questions. All questions carry equal marks. Q. No. 1 is compulsory. Answer *two* questions from Part I and *two* questions from Part II. The parts of the same question must be answered together and must not be interposed between answers to other questions.

Write critical notes on any *four* of the following : (4×7½=30)

- (a) Metamorphosis in insects
- (b) Aerial adaptation in birds
- (c) Abiotic factors and their role
- (d) Watson-Crick model of DNA
- (e) Oxidative Phosphorylation
- (f) Steroid hormone action.

P.T.O.

Part I

2. Write an essay on poisonous snakes of India with a brief description of poison apparatus present in them. (30)
3. Define Ecosystem. Describe its various components and explain their interactions. Write a brief note on food chains. (30)
4. Give an account of parasitic protozoans of man. (30)

Part II

5. Draw a sequence of figures along with suitable written text to explain the process of meiosis. (30)
6. Describe the mechanism of blood coagulation giving an account of various factors involved in this process. (30)
7. Classify the carbohydrates with at least one example for each class. Show the metabolic pathway that converts glucose to lactic acid. (30)