

11/23/2019

Code - 23
ZOOLOGY
Time: 3 Hours
Maximum Marks: 150

Note: Attempt any five questions. All question 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 questions must be answered together and must not be interposed between answers to other questions.

1. Write critical notes on any four of the following: (4x7.5=30)

- (a) Beneficial insects
- (b) Dentition in mammals
- (c) Enzyme action
- (d) Extra embryonic membranes in chick
- (e) Pituitary hormones
- (f) Recombination and Linkage

PART - I

2. Discuss parasitic adaptations in helminths. (30)
3. Write an essay on migration in fishes and birds. (30)
4. 'Pollution leads to global warming'. Comment. (30)

PART- II

5. Describe the processes of transcription and translation in the biosynthesis of proteins. Add a note of the genetic code. (30)
6. Define action potential and describe its propagation along the nerve fibre and across the synapse. (30)
7. Describe the structure of mitochondria, compartmentalization of **enzymes** and the generation of ATP. (30)