CSM : 15

ZOOLOGY

PAPER - I

Time Allowed : 3 hours                                        Full Marks : 100

Marks for each question is indicated against it.

Attempt any 5 (five) questions taking not more than 3 (three) questions from each Part.

PART A

1. Define taxonomic hierarchy with an example. Give an account on the five kingdom classification. 
   (8+12=20)

2. Describe the excretory system of earthworm. Add a note on the types of insect metamorphosis. 
   (12+8=20)

3. Give the salient features of protochordates. Explain the process of post-embryonic development in *Amphioxus*. 
   (8+12=20)

4. Illustrate the structure and composition of bones and cartilages. Write a note on dentition in mammals. 
   (10+10=20)

PART B

5. What are biogeochemical cycles? Explain the nitrogen cycle. What is the importance of Shannon-Wiener index? 
   (2+10+8=20)

6. Discuss the stages of human evolution as supported by hominid fossils. 
   (20)

7. Describe the process of induced breeding. What are the major biological and chemical pesticides? 
   (10+10=20)

8. Explain the meaning and significance of students’ *t*-test. Give a note on important genomic databases and their applications. 
   (8+12=20)

* * * * * * *