

**CSM : 17**

**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. Describe the concept of five kingdom classification. How does it fit into three domain system?  
(14+6=20)
2. Explain torsion and detorsion in Gastropoda. Add a note on the significance of these processes.  
(14+6=20)
3. What are the salient features of protochordates? Explain the process of post-embryonic development in *Amphioxus*.  
(6+14=20)
4. Give a comparative account on the structure of hearts in vertebrates. (20)

**PART - B**

5. Compare and contrast nitrogen and carbon cycles in the atmosphere. (20)
6. Discuss the origin of life in the lights of prebiotic soup theory and RNA world hypothesis.  
(20)
7. What is induced breeding? Describe the methods of induced breeding. (2+18=20)
8. Explain the concepts and applications of the most important genome and proteome databases.  
(20)

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