

CSM : 16

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. How do *Protozoa* reproduce? Describe the various types of locomotion in *Protozoa*.
(6+14=20)
2. Describe, giving suitable examples, the different types of metamorphosis found in insects.(20)
3. '*Sphenodon* is the most primitive and crocodilians are most advanced of all living Reptiles'. Discuss the statement. (20)
4. Describe with illustrations various types of respiratory systems in vertebrates. Draw labelled diagram wherever required. (20)

PART - B

5. State and explain the Shelford's Law of Tolerance. Discuss the process of ecological succession in a terrestrial community. (4+16=20)
6. Explain the modification of animals for adaptation to a desert environment. (20)
7. What are pests? Explain how integrated pest management is implemented and what are its advantages? (2+14+4=20)
8. What do you understand by a two-way F-test? Explain the application and significance of correlation analysis in biological studies. (2+18=20)

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