



IPE MODEL :: ZOOLOGY (60 Marks)

**SYLLABUS: Diversity in living World, Structural organization in Animals, Biology in human welfare : upto life cycle of *Entamoeba histolytica*.**

SECTION-A

I. Answer **ALL** the following questions. 10 x 2 = 20 M

1. What is Trinomial nomenclature? Give an example.
2. What does **ICZN** stands for?
3. Mention any two products of medicinal importance obtained from nature.
4. What is lymph? How does it differ from plasma.
5. What is a **sesamoid** bone? Give an example.
6. Mention any two substances secreted by Mast cells and their functions.
7. Distinguish between 'nucleus' and 'ganglion' with respect to nervous system.
8. Distinguish between mechanical vector and biological vector.
9. '*Entamoeba histolytica* is an obligatory anaerobe'. Justify.
10. What do you mean by parasitic castration? Give one example.

SECTION-B

II. Answer any **SIX** of the following questions. 6 x 4 = 24 M

11. Explain '**Rivet Popper**' hypothesis.
12. What is '**Evil Quartet**'?
13. Describe the structure of a multipolar neuron.
14. Explain Haversian system.
15. Describe the structure of a cardiac muscle.
16. Describe the three types of cartilage.
17. Define species. Explain the various aspects of 'species'.
18. What are the reasons for greater biodiversity in the tropics?

SECTION-C

III. Answer any **TWO** of the following questions. 2 x 8 = 16 M

19. Classify and describe the epithelial tissues on the basis of structural modification of cells with examples.
20. Explain the structure and life cycle of *Entamoeba histolytica* with the help of neat and labeled diagrams.
21. Give an account of the 'formed elements' of blood?

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