**TUTORIAL QUESTIONS**

**ZOO 201-INVERTEBRATE ZOOLOGY**

1. What is an invertebrate? On what basis are animals classified as invertebrates?
2. Describe the characteristic features of invertebrates.
3. Differentiate between lower and higher invertebrate phyla
4. Describe the structures, modes of nutrition and reproduction of *Euglena*.
5. Justify the statement that *Euglena* is more an animal than a plant.
6. How does *Euglena* regulate the amount of water in its body? What will happen if its contractile vacuole is somehow damaged?
7. What is the palmella stage of reproduction in *Euglena*? What are the methods of locomotion of *Euglena*?
8. Describe the habitat and structure of *Amoeba*.
9. Write detailed notes on (i) Locomotion in *Amoeba* (ii) Osmoregulation in *Amoeba* (iii) Modes of reproduction in *Amoeba*.
10. Discuss the biological significance of *Amoeba*.
11. Give an account of the life history of malarial parasite.
12. Describe in detail part of life-cycle of *Plasmodium* in mosquito.
13. Give an account of asexual cycle of *Plasmodium* vivax in man.
14. Describe the mode of nutrition and locomotion in *Paramecium*.
15. Give an account of mode of excretion and asexual reproduction in *Paramecium*.
16. What is conjugation? Describe the process of conjugation in *Paramecium* and its importance.
17. Give an account of the structure and life cycle of a simple sponge you have studied.
18. What is canal system? What type of canal system is found in *Leucosolenia*?
19. Give an account of locomotion and nutrition of *Hydra*.
20. Give an account of reproduction in *Hydra*.
21. Give an account of the various types of zooids found in *Obelia* colony.
22. What is polymorphism? Explain it with example of *Obelia* colony.
23. Describe the life history of *Aurelia*.
24. Compare the polyps of *Metridium* and *Obelia*.
25. What is digenetic life cycle? Explain it with reference to life history of *Fasciola hepatica* stating the stages that take place in each host.
26. Write detailed notes on (i) Scolex (ii) Proglottids (iii) Cysticercus.
27. Give an account of the life cycle of *Ascaris*.
28. What features distinguish male *Ascaris* from female *Ascaris*?
29. Describe the life cycle of *Ancyclostoma duodenale*.
30. Give an account of the life history of filarial worm.
31. Discuss the pathogenic effects of *Ancyclostoma duodenale, Ascaris*
32. Describe reproduction in the land snail.
33. List the various classes in Phylum Mollusca
34. What are the functions of the following features in Mollusca (i) Mantle (ii) Shell (iii) Foot?
35. Describe reproduction in earthworm.
36. Describe the reproduction processes in earthworm
37. List the various classes of Phylum Annelida and write short note on each of them.
38. Why Phylum Arthropoda is the most widely spread invertebrates?
39. What are the basic distinguishing features of Arthropods?