**TUTORIAL QUESTIONS**

**LOWER INVERTEBRATE**

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. Compare the polyps of *Metridium* and *Obelia*.
19. What is digenetic life cycle? Explain it with reference to life history of *Fasciola hepatica* stating the stages that take place in each host.
20. Write detailed notes on (i) Scolex (ii) Proglottids (iii) Cysticercus.
21. Give an account of the life cycle of *Ascaris*.
22. What features distinguish male *Ascaris* from female *Ascaris*?
23. Describe the life cycle of *Ancyclostoma duodenale*.
24. Discuss the pathogenic effects of *Ancyclostoma duodenale, Ascaris*.
25. Explain the term, “Mixotrophic in *Euglena*.
26. What the differences between *Taenia solium* and *Taenia saginata*?
27. Names TEN organisms among the Lower Invertebrates.
28. What is canal system? What type of canal system is found in Leucosolenia?
29. Give an account of locomotion and nutrition of Hydra.
30. Give an account of reproduction in Hydra.
31. Give an account of the various types of zooids found in Obelia colony.
32. What is polymorphism? Explain it with example of Obelia colony.
33. Describe the life history of Aurelia.