

Zoology – First Year – MARCH 2009

SECTION – A

10 X 2 = 20

1. Define Biotechnology and write about its applications.
2. Distinguish between protostomes and deuterostomes
3. What is Aristotle's lantern? Name an echinoderm that possess it.
4. What is Schizocoelom? Name the phylum in which schizocoelom is the functional body cavity in adults.
5. What are myonemes?
6. A person is suffering from bowel irregularity, abdominal pain, blood and mucus in stools. Based on these symptoms, name the disease and its causative organism.
7. Distinguish between a facultative parasite and an obligate parasite.
8. What is meant by Apiculture?
9. Distinguish between perichaetine and octochaetine arrangements.
10. What are biosphere reserves?

SECTION - B

6 X 4 = 24

11. Write a short notes on the salient features of anthozoans.
12. Describe the structure of a multipolar neuron.
13. Explain the Sol-gel theory a amoeboid locomotion.
14. Describe the process of transverse binary fission in paramecium
15. Describe the structure of microfilaria larva of *Wuchereria bancrofti*
16. Write the physiology of digestion in cockroach.
17. Draw a neat labelled diagram of the mouthparts of a housefly
18. Describe the thermal stratification of water.

SECTION - C

2 X 8 = 16

19. Give an account of the reproductive organs in pheretima. Draw a neat labelled diagram of the reproductive system.
20. Describe the life cycle of plasmodium vivax in a mosquito with the help of diagrams.
21. What is a food Chain? Explain the various types of food chains in a community. Add a note on food web.