

## Zoology – First Year – MARCH 2010

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SECTION - A

10 × 2 = 20

1. Distinguish between Eugenics and Euphenics.
2. Distinguish between sac like gut and tube within tube like gut.
3. Why is limulus is called a living fossil ? What are the respiratory organs in it
4. What are microglia ? what is their function ?
5. Distinguish between monopodial and polypodial protozoans.
6. Distinguish between facultative parasite and obligatory parasite.
7. Why the nucleus of Entamoeba histolytica is called cartwheel like nucleus
8. What is clitellum ? write its significance in earthworm.
9. Why male mosquitoes are unable to suck the blood of man ?
10. Distinguish between eurythermal and stenothermal animals.

SECTION – B ANSWER ANY 6

6 X 4 = 24

11. What are the salient features of echinoids ?
12. Explain Haversian system.
13. Describe the different types of flagella in protozoans.
14. Describe the process of transverse binary fission in paramecium.
15. Describe the structure of microfilaria larva of wuchereria bancrofti.
16. Draw a neat labelled diagram of salivary gland of cockroach.
17. Explain the economic importance of silkworm moth.
18. Define biodiversity. Explain the importance of it.

SECTION C ANSWER ANY 2

2 X 8 = 16

19. Describe the life cycle of Taenia solium
20. Describe the digestive system in earthworm with diagram.
21. Describe the flow of energy in an ecosystem.