

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086
(For Candidates admitted during the academic year 2008-09 & thereafter)

SUBJECT CODE: ZL/MC/IV14

B.Sc. DEGREE EXAMINATION NOVEMBER 2009
BRANCH VIA. ADVANCED ZOOLOGY AND BIOTECHNOLOGY
FIRST SEMESTER

COURSE : MAJOR CORE
PAPER : INVERTEBRATA
TIME : 3 HOURS

MAX. MARKS: 100

SECTION A

ANSWER ALL QUESTIONS

(10X3=30)

1. Match:

- | | | |
|----------------|---|--------------------|
| a) Tsetse fly | - | Fresh Water Sponge |
| b) Conjugation | - | Leishmania sp. |
| c) Dysentery | - | Paramecium |
| d) Mosquito | - | Trypanosoma |
| e) Kala azar | - | Plasmodium |
| f) Gemmule | - | Entamoeba |

2. Give the Zoological name:

- a) Tapeworm
- b) Pinworm
- c) Filarial worm

3. Define metamerism

4. Give the function of:

- | | |
|----------------------|------------|
| a) Malpighian tubule | b) Petasma |
|----------------------|------------|

5. Distinguish between pseudocoelom and true coelom

6. Draw a neat labelled diagram of mature proglottid

7. Mention the different types of polyp in Obelia species

8. Give examples of: a) Siphoning mouthparts

b) Cutting and chewing mouthparts

9. Comment on Radula

10. Write notes on a) Trichocyst b) Madreporite

SECTION B

ANSWER ANY FIVE QUESTIONS

(5X6=30)

11. Explain cycle of Ross in Plasmodium.
12. Describe Polymorphism in Trypanosoma.
13. Give an account of *Wuchereria bancrofti* and *Schistosoma haematobium*.
14. Describe the nervous system of *Pila globosa*.
15. Explain the affinities of Peripatus.
16. Describe the cephalic appendages of prawn.
17. Draw and describe Trocophore larva.

SECTION C

ANSWER ANY TWO QUESTIONS

(2X20=40)

18. Give a detailed account of locomotion in Protozoa.
19. Write an essay on the larval forms of Echinodermata.
20. Give an account of the corals and coral reefs. Add note on their conservation.
21. Describe the economic importance of Mollusca.
