

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 2008
BRANCH VIA. ADVANCED ZOOLOGY AND BIOTECHNOLOGY
FIRST SEMESTER

COURSE : MAJOR CORE
PAPER : INVERTEBRATA
TIME : 3 HOURS

MAX. MARKS : 100

SECTION- A

ANSWER ALL QUESTIONS

(10 X 3 = 30)

1. **Match:**
 - a) *Xenopsylla cheopis* - Dengue fever
 - b) *Glossina palpalis* - Typhus fever
 - c) *Aedes aegypti* - Bubonic plague
 - d) *Pediculus humanus* - Sleeping sickness
2. **Give the Zoological name for:**
 - a) Clam worm
 - b) Tape worm
 - c) Pin worm
3. **Define** Metamerism
4. **Give the functions of**
 - (a) Radula
 - (b) Pedicellaria
5. **Distinguish between** pseudocoelom and eucoelom.
6. **Draw a neat-labeled diagram of** the Parapodia of Nereis.
7. **Mention the different types of** malarial parasite.
8. **Give examples of organisms exhibiting**
 - (a) asymmetry
 - (b) radial symmetry
 - (c) bilateral symmetry
9. **Comment on** Petasma.
10. **Write notes on** a) Pearl b) Choanocyte

SECTION- B

ANSWER ANY FIVE QUESTIONS

(5 X 6 = 30)

11. Explain polymorphism in coelenterata.
12. Draw and describe the life cycle of *Taenia solium*.
13. Discuss phylogenetic significance of Peripatus.
14. Enumerate the characteristics of Phylum Protozoa and classify up to classes with suitable examples.
15. Elaborate on social life in insects with special reference to honey bees.
16. Describe the types of coral reefs. Add a note on its conservation.
17. Write a note on Sycon type of canal system in Porifera.

SECTION- C

ANSWER ANY TWO QUESTIONS

(2 X 20 = 40)

18. Define torsion and explain the process in Gastropod Molluscs.
19. Give an account of any four nematode parasites affecting man.
20. Draw and describe mouthparts and their modifications in insects.
21. Describe the larval forms of Echinoderms and discuss their significance.
