

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086
(For Candidates admitted during the academic year 2011 – 12 & thereafter)

SUBJECT CODE: 11ZL/MC/IV14

B.Sc. DEGREE EXAMINATION NOVEMBER 2013
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. What are the locomotor organs found in protozoans?
2. What is cyclosis?
3. Match the following:
 - a. Dactylozoid - Floatation
 - b. Gonozoid - Defense
 - c. Pneumatophores - Reproductive function
4. What are the functions of canal system?
5. Write about *Wuchereria bancrofti*
6. What is the significance of metamerism?
7. Describe the mouth parts of mosquito.
8. What are vectors? Give three examples and mention the parasites they transmit.
9. Where is Osphradium located? What is its function?
10. What is the role of tube feet?

SECTION B

ANSWER ANY FIVE QUESTIONS:

(5 x 6 = 30)

11. Classify Phylum Protozoa upto order level. Give appropriate examples.
12. Explain conjugation in *Paramecium*.
13. Describe the structure of *Obelia geniculata*. Support with a labelled diagram.
14. Describe the digestive system of *Hirudinaria granulosa*.
15. List the salient features of Phylum Arthropoda.
16. Describe the nervous system of *Penaeus indicus*.
17. Describe the oral and aboral structure of *Asterias*.

SECTION C

ANSWER ANY TWO QUESTIONS:

(2 x 20 = 40)

18. Write about corals and coral reef formation. Add notes on its present status and conservation strategies.
19. Describe the reproductive system of *Taenia solium*. Explain its life cycle with suitable illustration.
20. Explain the phylogenetic position of *Peripatus*.
21. Explain with suitable diagrams, the process of torsion in Gastropods.
