

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 2014  
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 the following:

- |                                 |                   |
|---------------------------------|-------------------|
| a) <i>Giardia intestinalis</i>  | Sleeping Sickness |
| b) <i>Leishmania donovoni</i>   | Kala azar         |
| c) <i>Trypanosoma gambiense</i> | Diarrhoea         |

2. Give the common names of the following:

- a) *Ancylostoma duodenale* -
- b) *Enterobius vermicularis* -
- c) *Wuchereria bancrofti* -

3. Write about *Schistosoma haematobium*.

4. What are Coral Reefs? Name the various types.

5. Define Alternation of Generation.

6. Explain the physiology of nutrition in *Hirudinaria granulosa*.

7. Explain the functions of the following:

- a) Statocysts
- b) Tube Feet

8. Name the disease caused by the following vectors

- a) *Culex quinquefasciatus* -
- b) *Pediculus humanus* -
- c) *Xenopsylla cheopis* -

9. Mention the different types of pedicellaria in star fish. Add a note on its function.

10. Mention any three economic importance of Molluscs.

**SECTION B**

**ANSWER ANY FIVE QUESTIONS:**

**(5 x 6 = 30)**

11. Give an account of locomotion in Protozoa.
12. Draw and describe any two larval forms of Echinoderms.
13. Discuss the phylogenetic significance of *Peripatus*.
14. Explain the Water Vascular system in star fishes.
15. Draw and describe the cephalic appendages in prawns.
16. Give an account on the life cycle of *Taenia solium*.
17. Define Metamerism and add a note on its type.

**SECTION C**

**ANSWER ANY TWO QUESTIONS:**

**(2 x 20 = 40)**

18. Give a detailed account on the Canal System of Sponges. Add a note on its significance.
19. Describe the life cycle of Human Malarial Parasites.
20. Give an account on Torsion in Gastropods.
21. Draw and describe the mouth parts of the insects. Add a note on its significance.

\*\*\*\*\*