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

SUBJECT CODE: 11 ZL/MC/IV14

B.Sc. DEGREE EXAMINATION NOVEMBER 2011
BRANCH VI.A. 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) *Entamoeba histolytica* - Sleeping Sickness
   b) *Leishmania donovoni* - Amoebic dysentery
   c) *Trypanosoma gambiense* - Kala azar

2. Give the common names of the following
   a) *Ancylotoma duodenale*
   b) *Dracunculus medinensis*
   c) *Enterobius vermicularis*

3. Give a short note on the caste of Honey Bees.

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

5. Define Alternation of Generation.

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

7. Define
   a) Statocysts b) Tube feet

8. Name the disease caused by the following vectors
   a) *Culex quinquefasciatus*
   b) *Aedes aegyptii*
   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's of Molluscs.

SECTION B

ANSWER ANY FIVE QUESTIONS: **(5 x 6 = 30)**

11. Give an account of locomotion in Protozoa.

12. With a neat labeled diagram describe the structure of the Medusa of Obelia colony.

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13. State the Phylogenetic significance of *Peripatus.*

14. Describe any two larval forms of Echinoderms.

15. Draw and describe the cephalic appendages in prawn.

16. Give an account on the life cycle of *Taenia solium*.

17. Define Metamerism and add a note on its types.

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 Sponge Fishing and Sponge Cultivation.

19. Describe the life cycle of Human Malarial Parasites.

20. Give an account on Social Life in Insects.

21. Explain in detail the structure and function of water vascular system in starfish.

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