

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086
(For Candidates admitted during the academic year 2005-06 & thereafter)

SUBJECT CODE: ZL/MC/IB14

B.Sc. DEGREE EXAMINATION NOVEMBER 2007
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. Distinguish between Pinacocytes and Choanocytes.
2. Comment on Synkaryon.
3. Define the following:
 - (a) Metagenesis
 - (b) Cyclosis
4. Give the functions of
 - (a) Flame cells
 - (b) Trichocysts
 - (c) Gastrozoid.
5. Give the zoological name:
 - (a) Leech
 - (b) Star fish
 - (c) Tape worm.
6. Give the common name:
 - (a) *Panaeus indicus*
 - (b) Ascaris
 - (c) *Pila globosa*
7. Draw a neat labelled diagram of the structure of Paramecium.
8. Write notes on Green gland.
9. Give examples of:
 - a. Hydrozoan and Anthozoan corals
 - b. Piercing and sucking mouthparts
10. Enumerate the functions of various zooids in a polymorphic colony of coelenterates.

SECTION- B**ANSWER ANY FIVE QUESTIONS****(5 X 6 = 30)**

11. Describe different types of cells found in sycon sponges.
12. Describe the mechanism of feeding and digestion in Paramecium.
13. Give an account of parasitic adaptations of *Taenia solium*.
14. Describe the Water Vascular System of Asterias.
15. Write notes on the conservation of corals
16. Give an account on the economic importance of mollusca
17. Discuss the affinities of Onychophora.

SECTION- C**ANSWER ANY TWO QUESTIONS****(2 X 20 = 40)**

18. What is conjugation? Describe the process of conjugation in Paramecium and its Significance.
19. Discuss the canal system of sponges.
20. Write an essay on helminth parasites affecting human Welfare.
21. Write an essay on the mouthparts and their modification in insects.
