

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086  
(For Candidates admitted during the academic year 2015– 2016 & thereafter)

SUBJECT CODE: 15ZL/MC/IV14

**B.Sc. DEGREE EXAMINATION - NOVEMBER 2018**  
**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.FILL IN THE BLANKS**

- Amoebiosis is caused by \_\_\_\_\_ .
- Larval form of sponge is \_\_\_\_\_.
- Ancylostoma duodenale* causes \_\_\_\_\_ in man.
- Piercing and sucking type of mouthpart is seen in \_\_\_\_\_.
- Water vascular system is the characteristic feature of the phylum \_\_\_\_\_.
- Plasmodium falciparum* is a \_\_\_\_\_ parasite.

**2) MENTION THE ZOOLOGICAL NAME OF THE FOLLOWING:**

- Tape worm
- Leech
- Marine prawn
- Apple snail
- Star fish
- Slipper animalcule

**3) DEFINE THE FOLLOWING**

- Conjugation
- Gemmule
- Hermaphrodite

**4) NAME THE CLASS TO WHICH THE FOLLOWING BELONG:**

- Paramecium*
- Obelia*
- Ascon*

**5) GIVE THE FUNCTIONS OF THE FOLLOWING**

- Scolex
- Petasma
- Ctenidium

**6) MATCH THE FOLLOWING**

- |                      |   |               |
|----------------------|---|---------------|
| a) <i>Anopheles</i>  | - | Metagenesis   |
| b) <i>Obelia</i>     | - | Malaria       |
| c) <i>Wuchereria</i> | - | Drones        |
| d) <i>Peripatus</i>  | - | Bipinnaria    |
| e) Honey bees        | - | Filariasis    |
| f) <i>Asterias</i>   | - | Living fossil |

**7) DISTINGUISH BETWEEN:**

- Radial symmetry and bilateral symmetry.
- Pseudocoelomate and acoelomate animals.
- Protozoa and metazoa.

**8) WHAT ARE THE FOLLOWING?**

- Proglottid
- Tergum
- Osphradium

9) Draw a neat labelled diagram of Star fish (Aboral view).

10) What is cyclosis?

**SECTION B**

**ANSWER ANY FIVE QUESTIONS:**

**(5 x 6 = 30)**

11. Explain the structure and function of contractile vacuole in *Paramecium*.
12. Write short notes on *Entamoeba histolytica*.
13. Describe the nervous system of apple snail.
14. Explain the types of coral reefs.
15. Write the salient features of Platyhelminthes.
16. Write a brief note on *Enterobius vermicularis*.
17. Briefly explain the phylogenetic significance of *Peripatus*.

**SECTION C**

**ANSWER ANY TWO QUESTIONS:**

**(2 x 20 = 40)**

18. Write a detailed account on locomotion in protozoa.
19. Give an account on canal system in sponges.
20. Describe the mouth parts and their modifications in insects.
21. Write an essay on larval forms of Echinodermata and their significance.

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