STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086 (For Candidates admitted during the academic year 2019 – 2020)

SUBJECT CODE: 19ZL/MC/IV14

B.Sc. DEGREE EXAMINATION - NOVEMBER 2019 BRANCH VI.A. ADVANCED ZOOLOGY AND BIOTECHNOLOGY FIRST SEMESTER

COURSE	: MAJOR CORE
PAPER	: INVERTEBRATA
TIME	: 3 HOURS

SECTION A

MAX. MARKS: 100

ANSWER ALL QUESTIONS:

(10 X 3 = 30)

- 1. What is gemmule?
- 2. Comment on scolex.
- 3. What is Amoebiasis?

4. STATE WHETHER THE FOLLOWING ARE TRUE OR FALSE:

- a) Plasmodium has micro and macro nucleus.
- b) Radial symmetry is the characteristic feature of the Phylum Coelenterata.
- c) Wuchereria bancrofti is a malarial pathogen.
- d) Peripatus is the connecting link between Arthropoda and Annelida.
- e) Bipinnaria is the larval form of *Pila globosa*.
- f) Ctenophores are also known as comb jellies.

5. FILL IN THE BLANKS:

- a) Leucosolenia *has* _____ type of canal system.
- b) Zoological name for leech is _____.
- c) -----is the secondary host for *Taenia solium*.

6. **DISTINGUISH BETWEEN:**

- a) Atoke and Epitoke.
- b) Pleuropod and Uropod.
- 7. Comment on leech therapy.
- 8. What is Pseudocoelomate animal?
- 9. Write short notes on Madreporite.

10. MATCH THE FOLLOWING:

- a) Malaria Hypnotoxin
- b) Cnidoblasts Anopheles mosquito
- c) Ascaris Hirudin
- d) Leech Nauplius
- e) Prawn Haemocyanin
- f) Pila Rhabditoid larva

SECTION B

ANSWER ANY FIVE QUESTIONS:

- 11. Briefly explain nutrition in *Paramecium caudatum*.
- 12. Write the salient features of the phylum Porifera.

 $(5 \times 6 = 30)$

- 13. Write short notes on the following
 - a) Ascaris lumbricoides b) Ancylostoma duodenale
- 14. Describe the thoracic appendages in Penaeus indicus.
- 15. Explain the digestive system in Pila globosa.
- 16. Give a brief account on metamerism in annelids.
- 17. Write an account on social life in honey bees.

SECTION C

ANSWER ANY TWO QUESTIONS:

 $(2 \times 20 = 40)$

- 18. Discuss in detail locomotion in protozoa.
- 19. Describe the alternation of generation in Obelia geniculata.
- 20. Give an account on mouthparts and their modification in insects.
- 21. Write an essay on larval forms of Echinoderms and their significance.
