

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

SUBJECT CODE: 11ZL/AC/GZ13

B.Sc. DEGREE EXAMINATION NOVEMBER 2011
BRANCH V.A. PLANT BIOLOGY & PLANT BIOTECHNOLOGY
FIRST SEMESTER

COURSE : ALLIED CORE
PAPER : GENERAL ZOOLOGY-I
TIME : 3 HOURS

MAX. MARKS: 100

SECTION – A

ANSWER ALL QUESTIONS

(10X3=30)

1. Write the Zoological name of the following organism
a) Starfish b) Pigeon c) Rabbit
2. Differentiate between coelomate and pseudocoelomate animals.
3. What is cyclosis?
4. Define sexual dimorphism. Give an example.
5. Define hermaphrodites. Give an example.
6. Differentiate between the chelate and non-chelate legs in prawns.
7. **FILL IN THE BLANKS**
 - a). _____ is a vocal organ found only in birds.
 - b). The upper convex surface of the star fish is called _____.
 - c). The disease ascariasis is caused by _____.
 - d). The last pair of abdominal appendages of Prawn is called _____.
 - e). Hardmania belongs to _____.
 - f). In Rabbit, the gap between incisors and premolars is called _____.
8. Define metamerism.
9. What is preen gland?

10. **MATCH THE FOLLOWING**

- | | |
|---------------------|----------------|
| a). Vermiculture | <i>Penaeus</i> |
| b). Protonephridium | Starfish |
| c). Tube feet | Rabbit |
| d). Nauplius | Aves |
| e). Coprophagy | Earthworm |
| f). Synsacrum | <i>Ascaris</i> |

SECTION – B**ANSWER ANY FIVE QUESTIONS****(Draw diagrams wherever necessary)****(5X6=30)**

11. Describe the locomotion of *Paramecium*.
12. With neat labeled diagrams describe the reproductive system of Earthworm.
13. Give an account of parasitic adaptation of *Ascaris*.
14. Write short notes on cephalic appendages in *Penaeus*.
15. Write the salient features of the phylum Echinodermata.
16. Give an account of air sacs in pigeon.
17. Describe the digestive system of Rabbit.

SECTION – C**ANSWER ANY TWO QUESTIONS****(Draw diagrams wherever necessary)****(2X20=40)**

18. Describe the process of conjugation in *Paramecium* and add a note on its significance.
19. Write an essay on water vascular system in starfish.
20. Describe the life cycle of *Ascaris*.
21. Give an account of flight adaptations in Pigeon.
