

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted during the academic year 2008 – 2009 & thereafter)

SUBJECT CODE: ZL/MC/VP64

B. Sc. DEGREE EXAMINATION APRIL 2012
BRANCH VI.A. - ADVANCED ZOOLOGY & BIOTECHNOLOGY
SIXTH SEMESTER

COURSE : MAJOR – CORE
PAPER : VERTEBRATE PHYSIOLOGY
TIME : 3 HOURS **MAX. MARKS: 100**

SECTION – A

ANSWER ALL QUESTIONS: (10 X 3 = 30)

1. What is ECG?
2. Draw and label a villus.
3. What is reflex action?
4. Mention the difference between ammonotelism and Ureotelism.
5. What are neuro transmitters?
6. Mention the functions of lymph.
7. Draw and label a nephron.
8. Define Basal Metabolic Rate (BMR).
9. What are receptors? Name any two of them.
10. What is meant by autonomic nervous system?

SECTION – B

ANSWER ANY FIVE OF THE QUESTIONS: (5 X 6 = 30)

11. Give an account on absorption of digested food.
12. Describe the structure of a mammalian lung and briefly explain how it exchanges gases.
13. Explain hypo and hyper thyroidism.
14. Draw and label a neuro muscular junction.
15. What are the various osmoregulatory mechanisms observed in vertebrates?
16. Describe the functioning of a mammalian heart.
17. What are electric organs? Explain with an example.

SECTION – C

ANSWER ANY TWO QUESTIONS:

(2 X 20 = 40)

18. Describe the structure and function of a mammalian kidney.
19. Write in detail about the different types of muscles. Add short notes on their properties.
20. With a neat diagram explain the structure and function of a mammalian eye.
21. What is puberty? Explain in detail the process of menstruation.
