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

SUBJECT CODE: ZL/MC/PH64

B. Sc. DEGREE EXAMINATION APRIL 2009 BRANCH VI.A. - ADVANCED ZOOLOGY & BIOTECHNOLOGY SIXTH SEMESTER

		MAJOR – CORE VERTEBRATE PHYSIOLO	GY
TIME	:	3 HOURS	MAX. MARKS : 100

SECTION – A

ANSWER ALL QUESTIONS:

(10 X 3 = 30)

- 1. What is a conjugated protein? Give an example.
- 2. Distingusih glycogenesis from gluconeogenesis.
- 3. Draw a neat labeled diagram of ECG and explain.
- 4. What is organ of corti?
- 5. Distinguish ureotelism from uricotelism with examples.
- 6. Describe Cori cycle.
- 7. Explain conditioned reflex with Pavlov's experiment.
- 8. Distinguish euryhaline from stenohaline forms.
- 9. What is bioluminescence? Give suitable examples.
- 10. Expand the abbreviations: NAD, FSH, ACTH.

SECTION – B

ANSWER ANY FIVE OF THE QUESTIONS:

(5 X 6 = 30)

- 11. Give an account of digestion of food in the stomach.
- 12. Summarize the process of Carbon dioxide transport. Add a note on chloride shift.
- 13. Describe the structure of human kidney.
- 14. Give an account on synaptic transmission of nerve impulse.

- 15. Give an account on the Osmoregulatory mechanisms in Teleostean fishes
- 16. Draw and describe the structure and function of human eye.
- 17. Explain briefly the functions and disorder related to Islets of Langerhans.

SECTION – C

ANSWER ANY TWO QUESTIONS:

(2 X 20 = 40)

- 18. Write an essay on catabolism of carbohydrate for the release of energy.
- 19. Explain the mechanism of urine formation in human with diagrams.
- 20. Write an account on menstrual cycle and the hormones related to it.
- 21. Describe the mechanism of muscle contraction.
