

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

SUBJECT CODE: 15ZL/MC/VP34

B.Sc. DEGREE EXAMINATION - NOVEMBER 2018
BRANCH VI A – ADVANCED ZOOLOGY & BIOTECHNOLOGY
THIRD SEMESTER

COURSE : MAJOR CORE
PAPER : VERTEBRATE PHYSIOLOGY
TIME : 3 HOURS

MAX. MARKS: 100

SECTION A

ANSWER ALL THE QUESTIONS.

(10 x 3 = 30)

1. What is meant by Digestion?
2. Define Respiratory quotient.
3. Write any three functions of the Lymphatic system.
4. Enumerate the applications of Electrocardiogram.
5. Write short notes on Brown Fat.
6. Justify Uricotelism as an adaptation to flight.
7. Draw and label the structure of a neuron.
8. Write the importance of Parathyroid gland.
9. Differentiate striped muscle from un-striped muscle.
10. What is meant EEG? Write its application.

SECTION B

ANSWER ANY FIVE QUESTIONS.

(5 x 6 = 30)

11. Explain Chloride Shift.
12. List any six adaptations to diving at high altitudes.
13. Comment on the regulation of heart beat and Blood pressure in Human.
14. Write the importance of Osmoionic regulation in Fresh water fishes.
15. What is nerve impulse? Explain conduction of nerve impulse..
16. With the help of a neat labelled diagram explain the structure of female reproductive system.
17. What is Ageing? Enlist the causes of Ageing.

SECTION C

ANSWER ANY TWO QUESTIONS.

(2 x 20 = 40)

18. Describe in detail the Physiology of Digestion in man with reference to stomach and intestine.
19. Discuss the mechanism of thermoregulation in Vertebrates.
20. Comment on the Physiology and regulation of Excretion in Human.
21. Justify the statement “Pituitary glands are the master glands of the Endocrine System”.
