

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086
(For candidates admitted during the academic year 2019-2020 and thereafter)

SUBJECT CODE: 19ZL/MC/AP34
B.Sc. DEGREE EXAMINATION-NOVEMBER 2022
BRANCH VIA – ADVANCED ZOOLOGY AND BIOTECHNOLOGY
THIRD SEMESTER

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

MAX.MARKS:100

SECTION-A

ANSWER ALL QUESTIONS **(10x3=30)**

1. Mention any three adaptations to high altitude.
2. What is filter feeding? Give an example.
3. Give the indications for taking Angiograms.
4. List the factors that influence blood pressure.
5. Distinguish between osmoregulators and osmoconformers.
6. Illustrate a nociceptor.
7. Highlight the precautions to be taken during oxygen therapy.
8. Identify the cause for a. Hemiplegia b. Paraplegia
9. Comment on Atherosclerosis
10. What is blood doping?

SECTION-B

ANSWER ANY FIVE QUESTIONS **(5x6=30)**

11. Explain the physiological effects of smoking in humans.
12. Distinguish between an open and closed circulatory System.
13. Classify animals based on nitrogenous products excreted.
14. Describe the mechanism of colour change in cold blooded vertebrates
15. What are the hormones involved in pregnancy. Discuss their roles.
16. Elucidate the thermoregulatory mechanisms in vertebrates.
17. Analyse the impact of endocrine disruptors on humans.

SECTION-C

ANSWER ANY TWO QUESTIONS **(2x20=40)**

18. Discuss the types of respiratory organs and their functioning mechanisms.
19. Describe neuromuscular synapses and neurotransmission.
20. Define 'Bioluminescence'. Explain the chemistry, mechanism and significance.
21. Summarise the changes, causes and theories associated with ageing.
