

TM243201X

22.11

Reg. No :

Name :

MASTER'S DEGREE (C.S.S) EXAMINATION, NOVEMBER 2024

2023 ADMISSIONS REGULAR

SEMESTER III - CORE COURSE ZOOLOGY

ZO3C09TM20 - Animal Physiology

Time : 3 Hours

Maximum Weight : 30

Part A

I. Answer any Eight questions. Each question carries 1 weight

(8x1=8)

1. Briefly describe the digestion of carbohydrates.
2. Comment on monogastric or single chambered stomach.
3. What is respiratory distress syndrome?
4. Write a note on nitrogen narcosis.
5. Explain referred pain.
6. Differentiate between phasic and tonic receptors.
7. Describe the role of kidney in maintaining homeostasis.
8. Describe the process of micturition.
9. Comment on HCG.
10. Write an account on pancreatic islets and its hormone secreting cells.

Part B

II. Answer any Six questions. Each question carries 2 weight

(6x2=12)

11. Summarize the mechanism of neural regulation of thirst.
12. Enumerate the effects of exercise on cardiovascular physiology.
13. Point out the important characteristics of myogenic heart.
14. Describe the neuroanatomy of central and peripheral nervous system.
15. Enumerate the major types and characteristics of neurotransmitters.
16. Elaborate on the chemical and neural methods of body temperature regulation in homeotherms.
17. Elaborate on lactation.
18. Write a detailed account on eicosanoids, chalcones, and lumones.

Part C

III. Answer any Two questions. Each question carries 5 weight

(2x5=10)

19. Elaborate on the neural and chemical regulation of cardiac activity.
20. Explain synapse with special mention to its excitatory and inhibitory functions.
21. Discuss briefly on temperature compensation and regulation in poikilotherms and homeotherms.
22. Explain synthesis, secretion and physiological role of thyroid hormones.