



32
K23P 1437

Reg. No. :

Name :

III Semester M.Sc. Degree (CBSS – Reg./Supple./Imp.)
Examination, October 2023
(2020 Admission Onwards)
ZOOLOGY
ZOO3C10 : Animal Physiology

Time : 3 Hours

Max. Marks : 60

I. Answer **any two** of the following. (2×12=24)

- 1) Write an essay on the ultrastructure of kidney and urine formation.
- 2) Explain the generation and propagation of action potential in neurons.
- 3) Write about the thermoregulation process emphasizing the role of hypothalamus.
- 4) Explain the process of gas transport in body. Comment on oxygen-haemoglobin dissociation curve.

II. Answer **any two** of the following. (2×8=16)

- 5) Compare the structure of skeletal, cardiac and smooth muscle.
- 6) Explain hormonal and neural regulation of digestion.
- 7) Explain the components of lymphatic system.
- 8) Write notes on the different neurotransmitters in vertebrates and invertebrates.

III. Write notes on **any four** of the following. (4×5=20)

- 9) Comment on Limbic system.
 - 10) Concept of renal clearance.
 - 11) What is acclimatization ?
 - 12) Mention vitamins and their functional roles.
 - 13) Comment on Hamburger phenomenon.
 - 14) Comment on the characteristics and constituents of urine.
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