



K20P 1134

Reg. No. :

Name :

**III Semester M.Sc. Degree (CBSS – Reg./Suppl./Imp.) Examination,
October 2020
(2014 Admission Onwards)
ZOOLOGY
ZOO3C10 : Animal Physiology**

Time : 3 Hours

Max. Marks : 60

I. Answer **any two** of the following :

- 1) Write a detailed account of neural and hormonal control of digestion.
- 2) Write an essay on synapse and synaptic transmission in vertebrates.
- 3) Give an account of urine formation and the mechanism of urine concentration.
- 4) Write a detailed account of cardiac cycle and its regulation. **(2×12=24)**

II. Answer **any two** of the following :

- 5) Comment on the role of hypothalamus and thyroid in temperature regulation.
- 6) Briefly describe the types of respiratory pigments and their functions.
- 7) Write an essay on molecular mechanism of muscle contraction.
- 8) Explain heat generation in homeothermic animals. **(2×8=16)**

III. Write short notes on **any four** of the following :

- 9) Cardiac reflexes.
 - 10) Role of vertebrate brain in behaviour.
 - 11) Giant nerve fibres.
 - 12) Lymphatic system.
 - 13) Fat absorption.
 - 14) Respiration in invertebrates. **(4×5=20)**
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