SM – 396

VI Semester B.Sc. Examination, May/June 2018
(CBCS) (Fresh+Repeaters) (2016 – 17 and Onwards)
ZOOLOGY – VIII
Animal Physiology and Techniques in Biology

Time : 3 Hours

Max. Marks : 70

Instructions : *1) Draw labelled diagrams **wherever** necessary.*
*2) Answer should be **completely** either in **Kannada** or **English**.*

PART – A

I. Answer **any five** of the following : **(5×3=15)**

1) Write a note on Haldane effect.
2) Define ureotelism with an example.
3) Write a short note on electrical synapse.
4) List any three functions of thyroxine.
5) Briefly explain the causes of obesity.
6) Mention the significance of fixative in microtechnique.
7) Give any three applications of electrophoresis.

PART – B

I. Answer **any five** of the following : **(5×5=25)**

1) Explain the hormonal control of digestive glandular secretions.
2) Define oxygen dissociation curve and discuss the effect of carbon dioxide on the same.
3) Explain physiology of vision.
4) Briefly explain the hormonal control of metamorphosis in insects.
5) Explain the mechanism of osmoregulation in anadromous fish.
6) Give an account of electron microscopy.
7) Write notes on principle and applications of auto radiography.

P.T.O.

PART – C

(3×10=30)

III. Answer **any three** of the following :

1) Explain carbon dioxide transport.
2) Describe the sliding filament theory of muscle contraction.
3) Write notes on :
   a) Neurotransmitters
   b) Methods of heat loss in homeotherms.
4) With reference to homeostasis explain positive feed back mechanism.
5) List any five hormones of adenohypophysis with one functions each.
6) Write explanatory notes on :
   a) Diabetes mellitus
   b) Immunoassay.
