

**GS-351**

VI Semester B.Sc. Examination, May/June - 2019

ZOOLOGY-VIII**Animal Physiology and Techniques in Biology****CBCS (F+R) 2016-17 & Onwards**

Max. Marks : 70

Time : 3 Hours

Instructions to Candidates :

- (1) Draw labelled diagrams wherever necessary.
- (2) Answer should be completely either in Kannada or English.

PART - A

5x3=15

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

1. Mention the metallic ion present in the following pigments :
 - (a) Haemoglobin
 - (b) Haemocyanin
 - (c) Chlorocruorin
2. Briefly explain Bohr's effect.
3. What are uricotelic animals ? Give an example.
4. Write a note on acromegaly.
5. Enumerate any three symptoms of hypertension.
6. Give the principle of centrifugation.
7. List any three applications of fractionation.

PART - BII. Answer **any five** of the following :

5x5=25

1. Discuss symbiotic digestion in ruminants.
2. Explain ornithine cycle.

P.T.



3. With respect to parathyroid secretion explain the negative feedback mechanism.
4. Explain osmoregulation in Salmon.
5. Give an account of jaundice.
6. Give the principle and applications of light microscopy.
7. Write notes on :
 - (a) Uses of alcohol in micro-technique
 - (b) Differential staining

PART - C**3x10=30****III. Answer any three of the following :**

1. Explain the physico-chemical aspects of muscle contraction.
2. Give an account of :
 - (a) CO₂ transport
 - (b) Hormonal control of metamorphosis in amphibia
3. List the hormones of adrenal gland with one function each.
4. With reference to thermoregulation, explain the role of hypothalamus.
5. Explain the physiology of hearing.
6. Give an account of :
 - (a) Neurotransmitters
 - (b) Endoscopy

- o o o -