

BS-2051

ANIMAL PHYSIOLOGY-II

(Semester-IV)

Time : Three Hours]

[Maximum Marks : 40

Note : Attempt *two* questions each from Section A and B.
Section C will be compulsory.

SECTION-A

- I. Discuss the origin and regulation of heart beat in mammalian heart. 6
- II. Write notes on :
- (a) Symbiotic digestion.
- (b) Mechanism of microphagous feeding. 3,3
- III. Explain the transport of CO₂ in blood. 6
- IV. Write notes on :
- (a) Rh-factor.
- (b) Electrocardiogram (ECG). 3,3

SECTION-B

- V. Write down the structure and physiology of Thyroid gland. 6
- VI. Describe the origin and propagation of nerve impulse along a non-medullated nerve fibre. 6
- VII. What is Osmoregulation ? Discuss the role of kidneys in osmoregulation. 6
- VIII. Explain the ultrastructure of skeletal muscle fibre. 6

SECTION-C

(Compulsory Question)

- IX. Write short answers on the following :
- (a) What is Haemostasis ?
 - (b) Give the functions of Testosterone.
 - (c) Differentiate between Chyme and Chyle.
 - (d) Write a short note on Cardiac output.
 - (e) What is Bohr effect ?
 - (f) What is Cori's cycle ?
 - (g) What is Heterocrine gland ? Name the gland.
 - (h) What is Ultrafiltration ? (8×2=16)
-