1

## NS-3470 (N)

## B.Sc. (Biotechnology) Examination, June-2022

## ANIMAL PHYSIOLOGY

(B-207)

(New)

(B.Sc. Biotech.)

Time: Three Hours 1 [Maximum Marks: 50

Note: Attempt any five questions. All questions carry equal marks.

- What are the important components of food? Describe the process of digestion of these compounds in any mammal, 10
- Discuss the unique properties haemoglobin. How is the oxygen transported by blood? 10

P.T.O.

https://www.ccsustudy.com

- Write detailed notes on any two of the 5×2=10 following:
  - (a) Buffer systems of the blood
  - (b) Habituation in animals
  - (c) Mechanism of blood clotting
- Describe the structure and physiology of 4. 10 a mammal.
- Draw well labelied diagram of any two of 5.  $5 \times 2 = 10$ the following:
  - (a) Structure of human heart
  - showing ovary (b) Structure of follicle stages progressive maturation.
  - (c) Structure of a neuron.
- Explain the mechanism of urine formation. Describe the role of aldosterone and 6. antidiuretic hormones.

## NS-3470 (N)/2

https://www.ccsustudy.com

- 7. Explain the following:  $2\frac{1}{2} \times 4 = 10$ 
  - (a) Acidosis and alkalosis
  - (b) Hypoxia
  - (c) Reproductive health
  - (d) Nerve impulse
- 8. Differentiate between chemical and electrical synapses with the process of neurotransmission across them. 10
- 9. Explain the following:  $2\frac{10}{2} \times 4 = 10$ 
  - (a) Homeostasis
  - (b) Absorption of sugar in mammals
  - (c) Growth hormones
  - (d) Cercadian rhythm
- 10. Illustrate the process of oogenesis in a mammalian ovary.10