

**NS-3470 (CV-II)**

**B.Sc. (Biotechnology) Examination,**

**June-2021**

**ANIMAL PHYSIOLOGY**

**(B-207)**

**(B.Sc. Biotech.)**

**Time : 1½ Hours ] [Maximum Marks : 50**

**Note :** Attempt any **two** questions. All questions carry equal marks.

1. What are the different components of digestive system? Describe the digestion and absorption of carbohydrate in different parts of digestive tract.

2. Write notes on any **two** of the following:
- (a) Various components of blood
  - (b) Antigen antibody interaction
  - (c) Chloride shift
3. What are endocrine glands? Write the name of any four endocrine glands. Give a detailed account of hormones secreted by adrenal gland.
4. Explain the following :
- (a) Phenoreceptors
  - (b) Innate immunity
  - (c) Acidosis
  - (d) Selective reabsorption
5. Describe in detail the various factors involved in the blood clotting and mechanism of blood coagulation.

**P.T.O.**

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6. Draw well labelled diagrams of any **two** of the following :
- (a) Human Heart
  - (b) L.S. of mammalian kidney
  - (c) Nerve cell
7. What is action potential? Describe in detail the propagation of nerve impulse along a nerve fibre.
8. What is respiration? Give an account the transport of oxygen during the respiration.
9. What is excretion? Describe various physiological processes involved in urine formation. Your answer should be supported by appropriate diagrams wherever necessary.

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10. Explain the following :
- (a) Antidiuretic hormones
  - (b) Habituation
  - (c) Homeostasis
  - (d) Spermiogenesis

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