

**B.Sc. Part-II**  
**Paper-II Animal Physiology and Biochemistry**

**A. Short answer type questions**

1. What is Chyme?
2. Give the function of scrotum.
3. Define Bohr's effect.
4. What is tidal volume?
5. Name the arteries that supply blood to the heart.
6. Give clinical importance of LDL and VLDL.
7. Why sucrose is not a reducing sugar?
8. What are juxtaglomerular cells?
9. Define synaptic delay?
10. Name the protein whose quaternary structure was first established and by whom?
11. What is Adam's apple?
12. What is chloride shift?
13. Name the factors that increase heartbeat.
14. Mention types of animals based upon the means of thermoregulation?
15. What are Kupffer's cells?

**B. Long answer type questions**

1. Draw well labelled diagram of the human heart showing internal structures.
2. Describe the structure of a neuron. Explain the transmission of nerve impulse through the nerve fiber.
3. Discuss the hormonal control of the functioning of the testes.
4. Write short notes on-
  - i) Oxidative pathway of fatty acids
  - ii) Parturition and lactation
5. What are minerals? What is the role of essential minerals in the body?
6. Describe structure and function of the gland which is both exocrine as well as endocrine?
7. Give the structure of a synapse. Mention the various types of synapse.
8. Describe the structure and function of follicles of human ovary.
9. Distinguish between-
  - i) Saturated and unsaturated fatty acids
  - ii) Transmission and deamination
10. Write short notes on-
  - i) Mechanism of blood clotting
  - ii) Leydig's and Sertoli cells