

N.B (1) Question No. 1 is **Compulsory**.

(2) Attempt any **four** questions out of remaining **six**.

(3) Figures on the right indicate full marks.

(4) Draw diagrams / sketches wherever necessary.

(5) Use legible handwriting. Use blue / black ink only.

1. (a) Describe in detail conducting system of the heart. [05]
(b) What is meant by spermatogenesis? [05]
(c) Explain with a neat diagram peristalsis. [05]
(d) Differentiate between axon and dendrites. [05]
 2. (a) Discuss different types of blood cells along with their functions. [10]
(b) Describe the stages of coagulation. [10]
 3. (a) Describe the structure of stomach and small intestine. [10]
(b) What is cardiac cycle? Explain various events of cardiac cycle. Define stroke volume and cardiac output. [10]
 4. (a) Draw and label a typical human cell and explain functions of any four important organelles. [10]
(b) Describe with a neat diagram structure and function of skin. [10]
 5. (a) Draw a labelled diagram of middle ear and inner ear. Explain mechanism hearing. [10]
(b) Discuss the anatomy of kidney and explain glomerular filtration in detail. [10]
 6. (a) Explain with a neat diagram different phases of action potential. [10]
(b) Discuss the structure of alveoli and explain the process of exchange of gases. [10]
 7. Write short notes on: [20]
 - (a) ECG
 - (b) Functions of CSF
 - (c) Rods and cones
 - (d) Structure of spinal cord.
-