

- 1 a) Define the following anatomical terms with examples.
 - i) Medial
 - ii) Proximal
 - iii) Superior
 - iv) Dorsal
 4
- b) Describe the structure and functions of connective and muscle tissue. 10
- OR**
- c) Identify the important bones of the appendicular skeleton system and mention their functions. 6
- d) Describe the processes that transport substances across the plasma membrane. 8
- 2 a) Define cardiac cycle and explain the events in a cardiac cycle. 6
- b) Write a note on the following :
 - i) Ganglion
 - ii) Synapses
 4+4
- OR**
- c) Write the composition of the blood and add a note on functions of RBC. 6
- d) Write a note on the following :
 - i) Neurotransmission
 - ii) Reflex arc
 4+4
- 3 a) Write about physiology of digestion. 10
- b) Outline the actions of the posterior lobe of the pituitary gland. 4
- OR**
- c) Explain the physiology of respiration. 8
- d) Give the structure and functions of the liver. 6
- 4 a) Outline the structure of the nephron and discuss the physiology of urine formation. 8
- b) Explain the anatomy and physiology of skin. 6
- OR**
- c) Discuss the structure and functions of the kidney. 8
- d) Explain the anatomy and physiology of ear. 6
- 5 a) Write about deficiency disorders of water soluble vitamins. 8
- b) Write a note on the following :
 - i) Thrombosis
 - ii) Neoplasms
 3+3
- OR**
- c) Explain various types of birth control methods and compare their effectiveness. 10
- d) Write a note on inflammation and repair. 4
