



- Notes :
1. All questions carry equal marks.
 2. Diagrams should be given wherever necessary.
 3. Illustrate your answers wherever necessary with the help of neat sketches.
 4. Q. 1 is compulsory, solve **any four** from remaining.

1. a) Draw a well labelled diagram of plasma membrane and explain in detail the various functions of plasma membrane. **8**
b) Draw a diagram of cell and explain in detail the organelle mitochondria. **8**
2. a) Explain in detail the clotting mechanism of blood. **8**
b) Write a detail note on Adrenal gland. **8**
3. Write a note on :- **16**
a) Conduction System of heart. b) Cardiac cycle.
c) Heart Sounds. d) ECG.
4. Explain in detail the anatomy and physiology of human eye. **16**
5. Explain in detail the structure and functions of thyroid & parathyroid gland. **16**
6. Enlist the organs of lymphatic system and explain the structure & functions of **any two** organs in detail. **16**
7. Explain the following disorders **any two**. **16**
a) Hypothyroidism. b) Diabetes Mellitus.
c) Hypertension.
