

- N.B. :** (1) Question No. 1 is **compulsory**.
(2) Attempt any **four** question from question Nos. 2 to 6.
(3) Draw **diagrams** wherever **necessary**.

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| 1. (a) Explain the process of haemostasis. | 5 |
| (b) State the functions of blood. | 3 |
| 2. (a) Describe the structure of cell membrane. | 4 |
| (b) Write a note on endocytosis. | 4 |
| 3. (a) Discuss the structure and functions of lymph nodes. | 6 |
| (b) What role does the lymphatic system play in immunity ? | 2 |
| 4. Explain the physiology of :- | |
| (a) Skeletal muscle contraction | 4 |
| (b) Neuromuscular junction. | 4 |
| 5. Explain the following disorders (any four) :- | 8 |
| (a) Megaloblastic anaemia | |
| (b) Tetany | |
| (c) Rheumatoid arthritis | |
| (d) Haemolytic disease of newborn | |
| (e) Haemophilias. | |
| 6. Write short notes on (any four) :- | 8 |
| (a) ABO blood group system | |
| (b) Cuboidal epithelium tissue | |
| (c) Secondary active transport system | |
| (d) Cardiac muscle tissue | |
| (e) Synthesis of haemoglobin. | |
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