

- N.B. :** (1) **All** questions are **compulsory**.
 (2) **All** questions carry **equal** marks.
 (3) Draw **neat** labelled diagrams wherever **necessary**.
 (4) Questions should be answered in **order**.

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| 1. Describe the following : | |
| (a) Erythropoiesis. | 7 |
| OR | |
| (a) Transfusion of whole blood. | 7 |
| (b) Structure and functions of haemoglobin. | 8 |
| OR | |
| (b) Plasma proteins and their functions. | 8 |
| 2. Explain the following : | |
| (a) Mechanism of clotting of blood. | 7 |
| OR | |
| (a) Leukemia. | 7 |
| (b) Anticoagulants. | 8 |
| OR | |
| (b) Types of leucocytes and their functions. | 8 |
| 3. Describe the following : | |
| (a) Spleen as a secondary lymphoid organ. | 7 |
| OR | |
| (a) B-Lymphocytes | 7 |
| (b) First line of defence of innate immunity. | 8 |
| OR | |
| (b) Types of Acquired Immunity. | 8 |
| 4. Explain the following : | |
| (a) Immunodiffusion. | 7 |
| OR | |
| (a) Structure and properties of IgM. | 7 |
| (b) Complete Antigens and Haptens. | 8 |
| OR | |
| (b) Factors affecting antigen specificity. | 8 |
| 5. Write short notes on : | |
| (a) Inorganic constituents of blood. | 4 |
| OR | |
| (a) Degradation of haemoglobin. | 4 |
| (b) Clotting time. | |
| OR | |
| (b) Differential count. | 4 |
| (c) Dendritic cells. | 4 |
| OR | |
| (c) Cutaneous associated lymphoid tissue. | 4 |
| (d) IgG | 3 |
| OR | |
| (d) Coomb's test. | 3 |
