

[Time: 03 Hours.]

[Marks: 100]

Please check whether you have got the right question paper.

N.B: 1. All questions are compulsory and carry equal marks.

2. Figures to the right indicate full marks.

3. Draw neat and labelled diagrams wherever necessary.

4. Answer the questions in proper order.

Q. 1 Describe Any Two of the following: (20)

- Composition of plasma
- Types of leucocytes and their functions
- Mechanism of clotting of blood

Q. 2 Explain Any Two of the following: (20)

- Liver Function tests
- Microscopic Examination of blood for diagnosis of malaria
- Scope of Applied Hematology

Q. 3 Give an account on Any Two of the following: (20)

- Phagocytosis and inflammatory responses as a mechanism of second line of defense.
- Thymus as a primary lymphoid organ
- The basic structure of immunoglobulin

Q. 4 Describe Any Two of the following: (20)

- Laurell's rocket electrophoresis and countercurrent immunoelectrophoresis
- Adjuvants used for human vaccines
- Immunological basis of graft rejection

Q. 5 Write short notes on: (Any Four) (20)

- ESR
- Hemorrhage
- Hapten
- Hemagglutination
- Purpura
- General features of antigen-antibody interactions: