

[Time: Three Hours]

[Marks:100]

Please check whether you have got the right question paper.

- N.B:
1. All questions are compulsory.
 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 Answer the following (Any Two): (20)

- (a) Describe the composition of plasma.
- (b) Give an account of the factors involved in the clotting of blood. Add a note on the structure of thrombocytes.
- (c) What is haemorrhage? Discuss the compensatory changes employed after haemorrhage.

Q. 2 Answer the following (Any Two): (20)

- (a) Elaborate on the microscopic examination of blood for the detection of lymphoma and myeloma.
- (b) Give an account of the enzymes which serve as markers for liver damage or injury.
- (c) Explain the clinical significance of evaluation of FSH and LH levels in the blood.

Q. 3 Answer the following (Any Two): (20)

- (a) Give a detailed account of cell mediated immunity.
- (b) Describe the lymph node as a secondary organ of immunity.
- (c) What are antibodies? With the help of a labelled diagram explain the basic structure of an antibody.

Q. 4 Answer the following (Any Two): (20)

- (a) Describe the characteristics and mechanism of precipitation reaction. Add a note on precipitation in gels.
- (b) Explain the principles of vaccination and add a note on the various routes of immunization.
- (c) Discuss the different measures to prevent graft rejection.

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

- (a) ESR.
- (b) Sickle cell anemia and its diagnosis.
- (c) Coomb's test.
- (d) Adjuvants used for human vaccines.
- (e) Macrophages.
- (f) Causes of increase and decrease in blood volume.