

[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)  
a) Types of plasma proteins and their functions  
b) Mechanism of blood clotting  
c) Hemoglobin formation and degradation
- Q. 2 Explain Any Two of the following: (20)  
a) Liver Function tests (Any three)  
b) Microscopic Examination of blood for myeloma and lymphoma  
c) Purpura-Types and diagnosis
- Q. 3 Give an account on Any Two of the following: (20)  
a) The first line defense mechanism of innate immunity  
b) Lymph node as a secondary lymphoid organ  
c) The basic structure of Immunoglobulin
- Q. 4 Describe Any Two of the following: (20)  
a) Mancini and Ouchterlony methods of immunodiffusion  
b) Latex agglutination and Coombs test  
c) Classification of vaccines
- Q. 5 Write short notes on: (Any Four) (20)  
a) Functions of WBC  
b) Thalassemia and its diagnosis  
c) Hapten  
d) MHC compatibility in organ transplantation  
e) Forensic hematology  
f) Dendritic cells

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