

[Time: 2:30 Hours]

[ Marks:75]

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 labelled diagrams wherever necessary.

Q.1 Explain the following.

a) Types of Leukemia.

(07)

**OR**

a) Formation of blood platelets.

(07)

b) Structure and functions of RBCs.

(08)

**OR**

b) Mechanism of clotting of blood.

(08)

Q.2 Describe the following.

a) Blood transfusion.

(07)

**OR**

a) Microbiological hematology.

(07)

b) Microscopic examination of blood for malaria.

(08)

**OR**

b) Carbohydrate Metabolism Tests.

(08)

Q.3 Give an account of.

a) Physical barriers of innate immunity.

(07)

**OR**

a) Structure and functions of IgG.

(07)

b) Lymph node as a secondary lymphoid organ.

(08)

**OR**

b) Types of acquired immunity.

(08)

Q.4 Describe the following.

- a) Mechanism of agglutination reaction.

(07)

**OR**

- a) ELISA.

(07)

- b) Types of graft.

(08)

**OR**

- b) Principles of vaccines.

(08)

Q.5 Write notes on:

- a) Clotting time.

(04)

**OR**

- a) Haemorrhage.

(04)

- b) Sick cell anemia and its diagnosis.

(04)

**OR**

- b) Oncological hematology.

(04)

- c) T lymphocytes.

(04)

**OR**

- c) Rheumatoid arthritis.

(04)

- d) Typhoid vaccines.

(03)

**OR**

- d) Tumor antigens.

(03)

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