- All questions are compulsory.
- Draw diagram wherever necessary

# Q.I (A) State true or false and correct the sentence if false (Any two)

- 1. The differences in innate immunity exhibited by different individuals in a race is known as species
- 2. The resident bacterial flora which lives on skin and mucous surfaces is known as transient flora.
- 3. The light chains in same antibody molecule can have both kappa and lambda varieties.
- 4. T cells are both produced and matured in bone marrow only.

# Q.I (B) Explain the following terms (any two)

- 1. Artificial passive immunity
- 2. Herd immunity
- 3. Adjuvants
- 4. Paratope

## Q.I (C) Answer the following (any two)

- 1. Explain the structure of antibody in brief.
- 2. Give features of Ig A antibodies.
- 3. Give general properties of antigens.
- 4. Give note on adjuvants.

#### Q.II (A) Explain the following terms (any two)

(06)

1. Pathogenicity

- 4. Opportunistic pathogen
- 2. Systemic infection
- 5. Nosocomial infection

3. LD<sub>50</sub>

Symptom

### ).II (B) Give significance of any one the following as virulence factors of pathogens

1. Capsule

2. Keratinase

#### .II (C) Answer the following (any two)

(12)

(02)

- 1. Enlist the main features of Koch's postulates and why is it difficult to prove them for some diseases.
- 2. Give a brief account on bacterial endotoxins.
- 3. What is indigenous microflora? Describe briefly about the normal flora of the skin.
- 4. Explain the role of reservoirs in the acquisition of an infection?

(P.T.O.)

2.

3.

4.

1

Q.I