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B.Tech.(BT) (2011 Onwards) (Sem.-5) IMMUNOLOGY AND IMMUNOTECHNOLOGY-II

Subject Code: BTBT-502 Paper ID: [A2074]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1) Write briefly:

- a) Receptor editing
- b) Thymus independent B cell activation
- c) Fas pathway of cytotoxic T cell response
- d) Inflammatory mediators
- e) Primary immunodeficiency
- f) Xenograft
- g) Serum sickness
- h) Interleukins
- i) Immunologically privileged sites
- j) Hyperacute rejection



SECTION-B

- 2) Mention the different properties of cytokines.
- 3) Why AIDS is considered as secondary immunodeficiency? Write about the asymptomatic phase of HIV infection.
- 4) How the activation of classical pathway and alternate pathway of complement system is different? Write the last steps of both pathways.
- 5) How molecular mimicry is associated with the development of autoimmune diseases?
- 6) Diagrammatically, explain the different steps of leukocyte migration.

SECTION-C

- 7) What are different types of tumor antigens? How immune system prevents the development of cancer?
- 8) Discuss the types of hypersensitive reaction which are caused due to IgG, IgM and IgE.
- 9) Describe sensitization and effector phase of the allograft rejection. How HLA typing is being carried out?

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