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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (BT) (2012 to 2017) (Sem.-5)
IMMUNOLOGY & IMMUNOTECHNOLOGY-II
Subject Code : BTBT-502
M.Code : 70503

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. **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**Write briefly :**

1. Serum Sickness
2. Thymus independent B cell activation
3. Clonal Anergy
4. Receptor editing
5. Perforin
6. Systemic Anaphylaxis
7. Tumor specific antigen
8. Immunologically privileged sites
9. Interferons
10. SCID

SECTION-B

11. Describe the role of different interferons in controlling viral infection.
12. Describe the autoimmune responses that take place in insulin dependent diabetes mellitus.
13. Justify with experiments that allograft rejection display specificity and memory response.
14. How tumor is evaded from immune system?
15. Diagrammatically, describe the different steps of leukocyte migration?

SECTION-C

16. How does B cells activation take place? Describe the role of T helper cells in activating adaptive immunity.
17. Discuss the sensitization and effectors phase of delayed type hypersensitive (DTH) response. How mycobacteria infection leads to delayed type hypersensitive (DTH) response?
18. How does T cell development and activation take place? Write the role of different types of cell in immune system.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.