FirstRanker.com
Firstranker's choice
www.FirstRanker.com www.FirstRanker.com

Roll No. | | | | | | | | | | | | | Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (BT) (2012 to 2017) (Sem.–4)

IMMUNOLOGY AND IMMUNOTECHNOLOGY-I

Subject Code : BTBT-403

M.Code : 55086

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. Difference between antigen and immunogen.
2. Double immunodiffusion
3. Structure of T cell receptor
4. Allotypic and Isotypic determinants
5. DNA Vaccine
6. Neutrophils
7. Transcytosis
8. Organization of MHC locus in human
9. Chimeric antibodies
10. Thymus

www.FirstRanker.com

FirstRanker.com
Firstranker's choice
www.FirstRanker.com www.FirstRanker.com

SECTION-B

11. Differentiate between positive and negative selection of T cells development.

12. Illustrate the affinity maturation and somatic hyper-mutation.

13. Diagrammatically explain the phagocytosis mechanism of Macrophages.

14. Outline the theory and application of western blotting.

15. Explain any two subunit vaccine.

SECTION-C

16. How does T and B cell activation take place?

17. Describe the classical and MBL pathway of complement system.

18. Explain the different steps of ELISA. Differentiate between competitive and indirect ELISA.

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.

www.FirstRanker.com