DPP-1407

M. Sc. (Microbiology) (Sem. II) Examination
March / April - 2016
203 : Advances in Immunology & Immunotechnology
(New Course)

Time : 3 Hours] [Total Marks : 70

Instruction :
(1) Figures to the right indicate full marks of the question.
(3) Draw neat and labelled diagrams whenever necessary.

1 Answer the following : (Any two) 18
   (1) Explain the role of membrane molecules in T cell receptor.
   (2) Compare and contrast between T cell and B cell activation.
   (3) Discuss in detail genomic organization of MHC

2 Answer the following : (Any two) 18
   (1) What is Oncogenes and give a detailed account of its
       induction.
   (2) Explain in detail role of T cells in tumors of immune
       system.
   (3) What is mixed lymphocyte reaction and discuss its role
       in detail.

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3 Answer the following: (Any two)

1. Discuss the method of identification of functional subsets of T cells.
2. Give detailed account of transgenic mice techniques for manipulation of immune system.
3. Immunoblotting technique: principle and application.

4 Write notes: (any two)

1. Give detailed account of clinical application of antibodies
2. Engineering antibodies for cancer therapy