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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)

નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of ☛ signs on your answer book.

Name of the Examination :

☛ **M. Sc. (Microbiology) (Sem. II)**

Name of the Subject :

☛ 203 : Advances in Immunology & Immunotechnology *(New)*

☛ Subject Code No. : 1 4 0 7 ☛ Section No. (1, 2,.....) : Nil

Seat No. :

Student's Signature

(2) 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.

3 Answer the following : (Any **two**) **18**

(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**) **16**

(1) Give detailed account of clinical application of antibodies

(2) Engineering antibodies for cancer therapy

(3) Current approach for immunotherapy.
