

## **NAV-9048**

Seat No.

## M. D. (Branch - IX) Examination

March / April - 2017

Microbiology: Paper - I

(General Microbiology & Immunology)

Time: 3 Hours [Total Marks: 100

## Instructions:

- (1) Figures on right hand side indicates full marks.
- (2) Draw neat and clean diagram wherever necessary.
- Explain biosafety level and describe various biosafety 33 levels specified while working with micro-organism.
- Write mechanism of cell mediated immune response and 33 Parameters of CMI.
- 3 Write notes on:

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- (a) Microbial typing and its applications
- (b) Immunological tolerance and mechanisms of various autoimmune disease.

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