



BU-9048

Seat No. _____

M. D. (Branch - IX) Examination

March - 2021

Microbiology : Paper - I

(General Microbiology & Immunology)

Time : 3 Hours]

[Total Marks : 100

- Instructions :** (1) Figures on right side indicate full marks of the question.
(2) Draw neat and clean diagram wherever it is necessary.
(3) All questions are compulsory.

- 1** Enumerate the methods of transfer of genetic materials in **33**
bacteria. Describe in detail : Horizontal gene transfer.
- 2** Define different types of immune responses. Describe in **33**
detail about the mechanisms of antibody-mediated immune
response.
- 3** Write notes on : **34**
(a) Molecular methods applied to disease detection and diagnosis.
(b) HLA complex.
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