



DBX-003-1132002

Seat No. _____

M. Sc. (Biotech) (Sem. II) (CBCS) Examination

July - 2022

BT-207 : Immunology (2016)

Faculty Code : 003

Subject Code : 1132002

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

1 Answer the following (Any Seven , Each of 02 marks) 14

- (1) What is adaptive immunity ?
- (2) What is interferon ? Give its function.
- (3) What are adjuvants ?
- (4) How would you differentiate HIV-I and HIV-II ?
- (5) What are Cytokines ?
- (6) How are antigens recognized ?
- (7) What are immunogenicity and antigenicity ?
- (8) What is cancer ?
- (9) What do you mean by attenuation ?
- (10) What is the basis of antibody diversity ?

2 Answer the following : (any two each of 7 Marks) 14

- (a) What factors influence immunogenicity ? Describe.
- (b) Write a short note on the innate immune system.
- (c) What are antibody and their types ?

3 Answer the following : (All are compulsory, each of 7 marks) 14

- (a) Write a note on antigen-antibody interactions.
- (b) What are Superantigens and Autoantigens ?

OR

- (a) What is Radio Immuno Assay ? Give its applications.
- (b) Write a note on the lymphoid system.

- 4 Answer the following : (All are compulsory, each of 7 marks) 14
- (a) What is autoimmunity ? Describe a suitable example.
 - (b) Discuss various stages of vaccine development.
- 5 Answer the following (Any Two, each of 07 marks) 14
- (a) What are monoclonal antibodies ? Give its applications.
 - (b) Write a note on HLA typing methods ?
 - (c) Describe in detail MHC.
 - (d) What is hypersensitivity ? Describe a suitable example.
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