



NCC-003-1132002 Seat No. _____
M. Sc. (Biotech) (Sem. II) (CBCS) Examination
April / May - 2017
BT-207 : Immunology
(CORE)

Faculty Code : 003
Subject Code : 1132002

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

[Total Marks : 70

- 1 Answer the following : (any seven out of ten, each of 14
 2 marks)
- (1) What is Agglutination ?
 - (2) Give significance of T-Cell.
 - (3) What are Adjuvant?
 - (4) Differentiate HIV-I and HIV-II.
 - (5) What is an auto antigen?
 - (6) Define toxoid vaccine and give one example.
 - (7) What is Immunogenicity?
 - (8) What are major classes of antibody?
 - (9) Enlist factors that affects the performance of vaccine.
 - (10) What are interferons?
- 2 Answer the following : (any two out of three, each of 14
 7 marks)
- (a) Explain factors influencing immunogenicity.
 - (b) Write a short note on structure of antibody.
 - (c) Explain enzyme linked immunosorbent assay and give its different types.

3 Answer the following : (a) & (b) Both are compulsory, **14**
each of **7** marks)

(a) Explain B-cell activation and give its significance.

(b) Write a note on T- cell development.

OR

3 Answer the following : (a) & (b) Both are compulsory, **14**
each of **7** marks)

(a) What are Cytokines? Explain.

(b) Write a short note on lymphoid system.

4 Answer the following : (a) & (b) Both are compulsory, **14**
each of **7** marks

(a) What is Autoimmunity? Explain.

(b) Explain types of vaccine with suitable examples.

5 Answer the following : (any **two** out of four, each of **14**
7 marks)

(a) Write a note on monoclonal antibody.

(b) Write a note on HIV transmission?

(c) Write a short note on MHC.

(d) What is hypersensitivity? Describe.
