

Exam. Code : 210004

Subject Code : 8455

M.Sc. (Botany) Semester—IV

BOTC-725 : IMMUNOLOGY

Time Allowed—3 Hours]

[Maximum Marks—50

Note :— Section A is compulsory (EIGHT questions, 1 mark each).

Section B : Attempt SEVEN questions. The answer should not exceed 2 pages (SEVEN questions, 3 marks).

Section C : Attempt any THREE questions. The answer should not exceed 4 pages (THREE questions, 7 marks each).

SECTION— A

1. Give brief account of the following .

- (a) Attenuation
- (b) Complement
- (c) Hapten
- (d) Epitope
- (e) Paratope
- (f) Opsonization
- (g) Basophils
- (h) MHC.

8×1=8

SECTION—B

2. What are Primary Immunodeficiency disorder ?
3. Give the characteristics features of innate immunity.
4. How immunogenicity can be enhanced ?
5. How antigens are recognized by cells ?
6. Explain cross-reactivity.
7. What are allotypes ?
8. Give the functions of macrophages.
9. What is a secondary immune response ?
10. How AIDS affects the immune response ?
11. What are the functions of Thymus ? $7 \times 3 = 21$

SECTION—C

12. Describe the properties of antigens which determine immunogenicity.
13. Classify antibodies and give their biological properties.
14. How body responds for adaptive immunity ?
15. Give the structure and functions of secondary lymphoid organs.
16. How immune system is responsible for the infectious diseases control ? $3 \times 7 = 21$