

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9

Sub. Code :

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**B.Sc. (Hons.) Biotechnology 4th Semester
(2054)**

IMMUNOLOGY—II

Paper : BIOT-401-T

Time Allowed : Three Hours]

[Maximum Marks : 67

Note :—Attempt FIVE questions in all. Question No. 1 is compulsory and selecting ONE question from each Unit.

1. Answer briefly :

- (1) Adjuvants
- (2) Mannose binding proteins
- (3) DTH
- (4) Graves' disease
- (5) Polyclonal Ab
- (6) RIA
- (7) IgE
- (8) Precipitation
- (9) Cyclosporin A
- (10) SLE.

1.5×10=15

UNIT—I

2. (a) Discuss the role of cell surface proteins in lymphocyte trafficking. 7
(b) Explain the biological consequences of complement activation. 6
3. Write a note on Alternative Complement System. 13

UNIT—II

4. (a) Discuss the principle of ELISA. 6
(b) Write a note on the production of Monoclonal Antibodies. 7
5. (a) Discuss the principle and applications of agglutination reactions. 7
(b) Elaborate on antibody affinity and avidity. 6

UNIT—III

6. (a) Explain Insulin-dependent Diabetes Mellitus. 6
(b) What causes Myasthenia Gravis ? 7
7. Discuss the Type III hypersensitivity and its implications. 13

UNIT—IV

8. Write notes on :
(a) DNA Vaccines
(b) Tumour vaccines
(c) Passive immunization. 13
9. (a) Discuss the clinical manifestations of Graft rejection. 7
(b) Explain specific immunosuppressive therapy. 6