

No. of Printed Pages : 03

Roll No.

D-62

B. Tech. EXAMINATION, May 2018

(Fourth Semester)

(B. Scheme) (Main & Re-appear)

(BT)

BT204B

IMMUNOLOGY

Time : 3 Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

(2-35/11) M-D-62

P.T.O.

Unit I

1. Differentiate between Primary and Secondary lymphoid organs. Discuss the different types of cells of the immune system along with their roles. **15**
2. Write short notes on the following : **5×3=15**
 - (a) Immunity and its types
 - (b) Various types of immune responses
 - (c) Haematopoiesis.

Unit II

3. Describe the basic structure of Ig molecule. Discuss various classes of immunoglobulins. **15**
4. Write short notes on any *three* of the following : **15**
 - (a) T-Cell activation and its differentiation
 - (b) Haptens and Antigenic determinants
 - (c) Hybridoma Technology
 - (d) Major histocompatibility complex.

Unit III

5. Write detailed notes on the following : **15**
 - (a) Complement System
 - (b) Cytokines-Properties and their role in immune regulation.
6. Differentiate between ELISA, RIA and Florescent Ab method. Discuss the principle, advantages and types of ELISA. **15**

Unit IV

7. Describe various types of Vaccines and their development. **15**
8. Write detailed notes on any *two* of the following :
 - (a) Types of Hypersensitivity
 - (b) Secondary immune deficiencies
 - (c) Role of MHC and TCR in autoimmunity.**7.5×2=15**