

8. (a) What are antibacterial drugs and their mode of action ? **10**
- (b) How repetitive sequence is important in human genome ? **5**

No. of Printed Pages : 04

Roll No.

BB-223

M. Tech. EXAMINATION, Dec. 2017

(Second Semester)

(B. Scheme) (Re-appear Only)

(BT)

BT-506-B

BIOTECHNOLOGY IN HEALTHCARE

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.

Unit I

1. (a) Discuss endotoxins in details and their importance. **5**
(b) Describe different types of Dermato-mycoses. What immunological response occurs in case of dermatophyte infection. **10**
2. (a) Discuss pathogenesis, epidemiology and lab diagnosis of influenza virus. **7½**
(b) What makes *M. tuberculosis* survival in mesophage ? Discuss mechanism in detail. **7½**
3. Write short notes on the following : **15**
 - (a) Freund's Adjuvants
 - (b) Allograft and Syngraft
 - (c) Grave's Disease
 - (d) IgE.

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Unit II

4. Write in detail the importance of MHI and MHC II molecule in transplantation biology. **15**
5. (a) What do you mean by Gene Silencing ? How miRNA help in gene turning off ? **10**
(b) Discuss the polysaccharide as vaccine in details. **5**
6. Explain the concept of dry targeting and its application in details. **15**

Unit III

7. (a) How identification of diseased gene can be made by using Human genome project data ? **7½**
(b) Discuss the mechanism of action of endocrine drugs by citing examples. **7½**

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P.T.O.