

No. of Printed Pages : 03

Roll No.

BB-223

M. Tech. EXAMINATION, May 2017

(Second Semester)

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

(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.

(3-10/13)M-BB-223

P.T.O.

Unit I

1. (a) What are dermatomycosis and their types? What immunological response occurs in the body in dermatophytes infection? **10**
(b) Discuss endotoxins in detail with citing at least one example. **5**
2. (a) What makes *M tuberculosis* resistant to antibiotic? Discuss the mechanism of their survival in matrophage. **7½**
(b) Discuss epidemiology and pathogenesis of typhoid in detail. **7½**
3. Write short notes on the following : **3½×4=15**
 - (a) Grave's Disease
 - (b) IgD
 - (c) Frueud's Adjuvants
 - (d) Syngraft.

Unit II

4. Write cell mediated immune response in detail. **15**

5. (a) How mRNA help in silencing of a gene? What are the applications of this technology? **10**
(b) Write an explanatory note on polysaccharide as vaccine. **5**
6. Explain Drug targeting in detail and discuss its applications. **15**

Unit III

7. (a) Discuss the strategies in detail by which identification of diseased gene can be done by using Human Genome Project. **7½**
(b) Discuss the mode of action of endocrine drugs by suitable examples. **7½**
8. (a) How repetitive sequence is important in human genome? **7½**
(b) Write short note on anticoagulants and their mechanism of action. **7½**