

No. of Printed Pages : 03

Roll No.

BB-223

M. Tech. EXAMINATION, May 2018

(Second Semester)

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

(BT)

BT506B

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 any *Five* questions. All questions carry equal marks.

1. (a) Give a detailed account of pathogenesis and treatment of disease caused by *S. aureus*. **10**

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P.T.O.

- (b) Comment on cancer caused by tumor viruses. **5**
2. (a) Write a detailed account on the diagnosis and retroviral therapy of HIV virus. **10**
- (b) How tuberculosis organism able to survive intracellularly ? **5**
3. Discuss antibodies and their types in detail with neat diagram. **15**
4. Write short notes on the following :
- (a) MHC-II protein
- (b) Cytokines
- (c) T_C cells. **5×3=15**
5. Discuss antisense therapy in detail and its applications. **15**
6. Discuss the basic concept and novel advances of drug target. Explain with neat diagram. **15**
7. (a) How repetitive sequence affect the human being ? Explain with suitable examples. **7½**

- (b) Comment on antifungal drugs that acts on protein synthesis. **7½**

8. Explain the following :

- (a) Physical map
- (b) Sex hormones
- (c) Anticoagulants. **5×3=15**