

(Following Paper ID and Roll No. to be filled in your  
Answer Books)

Paper ID : 154662

Roll No. 

--	--	--	--	--	--	--	--	--	--

**B.TECH.**

**Theory Examination (Semester-VI) 2015-16**

**BIOTECHNOLOGY IN HEALTH CARE**

*Time : 3 Hours*

*Max. Marks : 100*

**Section-A**

**UPTU NOTES**

**Q.1 Attempt all parts. All parts carry equal marks. Write answer of each part in short. (2×10=20)**

- (a) Define subunit vaccines.
- (b) Briefly explain therapeutic index.
- (c) What are ribozymes.
- (d) Describe anticoagulants.
- (e) Explain the process opsonization.

- (f) Give the function of parenchymal cells of liver.
- (g) Define Glycoproteins.
- (h) Describe lactam antibiotics in brief.
- (i) Give a concise explanation of Myocardial infarction.
- (j) Define toxoids.

### Section-B

**Q2. Attempt any five parts. All parts carry equal marks:**  
(5×10=50)

- (a) Explain polysaccharide bacterial vaccine.
- (b) How would you describe cell mediated immune response?
- (c) Give a vivid explanation of radiosensitizers.
- (d) What is Gene therapy? Explain targeted gene transfer.
- (e) Describe antihelmenthic agents.
- (f) Elaborate peptidomimetics with a flow diagram.

- (g) Explain the structure of antibody with a diagram and explain various immunoglobulins.
- (h) Discuss Cancer immunotherapy.

### Section-C

**Attempt any two questions from this section.**

**(2×15=30)**

- Q3.** Discuss brain specific drug targeting strategies.
- Q4.** Give a detailed explanation of modification of endogenous peptides and proteins.
- Q5.** Give a detailed account of endocrinal drugs.