(Following Paper ID and Roll No. to be filled in your Answer Book)						
PAPER ID : 154851	Roll No.					

B.Tech.

(SEM. VIII) THEORY EXAMINATION 2013-14 BIOTECHNOLOGY IN HEALTH CARE

Time: 3 Hours

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Total Marks: 100

Note: Attempt all questions as directed. All questions carry equal marks.

- 1. Write short notes on any four of the following:
 - (a) Cell mediated immunity
 - (b) Role of endogenous peptides in immunity
 - (c) Immunogenicity
 - (d) Antibodies
 - (e) Epitopes
 - (f) Recombinant Vaccines
- 2. Attempt any two of the following:
 - (a) What is gene therapy? Describe the methods of gene therapy and discuss their comparative advantages.
 - (b) Write a note on antisense RNA technology. How can it be used to silent an oncogene. Describe any method with the help of suitable diagrams.
 - (c) What are carbohydrate-based cancer vaccines? Describe the concept behind them and mention their potential advantages.

- 3. Attempt any two of the following:
 - (a) Describe the properties of radio-sensitizers. Mention their roles and discuss their importance.
 - (b) What do you understand by anthrombotics and hemostatics? Discuss their importance.
 - (c) What is the role of endogenous vasoactive peptides? How do they perform?
- 4. Write short notes on any four of the following:
 - (a) Synthetic antibacterials
 - (b) Human chorionic gonadotropin and its analogs
 - (c) Immuno modulators
 - (d) Lactam antibiotics
 - (e) Mode of action of anthelmintic agents
 - (f) Drugs against viral diseases
- 5. Attempt any two of the following:
 - (a) What is blood brain barrier? What is its importance in selecting a drug against any disease?
 - (b) Describe the process of targeted drug delivery. How does its effect differ from that of systemic drug delivery?
 - (c) Write a note on advances in drug delivery systems.