

Printed Pages : 2



EBT051

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

**PAPER ID : 154851**

Roll No.

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### **B. Tech.**

(SEM. VIII) THEORY EXAMINATION, 2014-15  
**BIOTECHNOLOGY IN HEALTH CARE**

Time : 3 Hours]

[Total Marks : 100

**Note:** Attempt all questions

- 1 Attempt any two parts of the following : (10×2=20)
  - (a) How does cell mediated immunity play a crucial role in establishment and control of intracellular diseases.
  - (b) What are the different types of vaccine? Briefly explain their preparation method along with their advantages and disadvantages.
  - (c) Briefly describe modification of endogenous peptides and proteins.
  
- 2 Attempt any two parts of the following : (10×2=20)
  - (a) What is SCID? What are the problems associated with SCID? Is there any successful measure to scope up with the problem?
  - (b) Define gene therapy. Briefly describe the various approaches for gene therapy, their advantages and limitations.

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[ Contd...

- (c) Write a short note on approaches to carbohydrate-based cancer vaccines.
- 3 Attempt any two parts of the following (10×2=20)
- (a) What do you understand by myocardial infarction? How vasoactive peptides play a crucial role during infarction?
  - (b) What are the radiosensitizers and radioprotective agents?
  - (c) Discuss about the hemostatics and a thrombotics.
- 4 Attempt any two parts of the following : (10×2=20)
- (a) What is antibacterial therapy? Discuss the mode of action of an antibacterial agent.
  - (b) What is antihelminthic therapy? Discuss about the mode of action of some common antihelminthics.
  - (c) Discuss the role of biotechnology in health care giving suitable examples to support your views.
- 5 Write short notes any four : (5×4=20)
- (a) Pulmonary drug delivery
  - (b) Liposome based drug targeting
  - (c) Cell specific drug delivery
  - (d) Brain specific drug targeting strategies
  - (e) Importance of drug targetting.
  - (f) Sustained drug delivery.
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