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Sub Code: NBT 012

Paper Id: 154622

Roll No: XXXXXXXXXX

B. TECH.
(SEM - VI) THEORY EXAMINATION 2017-18
BIOTECHNOLOGY IN HEALTH CARE

*Time: 3 Hours**Total Marks: 100***Note:** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief.****2 x 10 = 20**

- (a) What do you understand by antibody?
- (b) Explain myocardial infarction in short.
- (c) Explain Liposome Based drug delivery
- (d) What is role of Blood Brain Barrier
- (e) What are therapeutic polysaccharides?
- (f) What are hematopoietic agents?
- (g) What are radiosprotective agents?
- (h) What is difference between active and passive immunity?
- (i) What is Recombinant Vaccine?
- (j) Explain therapeutic index.

SECTION B**2. Attempt any three of the following:****10 x 3 = 30**

- (a) What is cancer immunotherapy? Explain in detail.
- (b) What are antisense oligonucleotides? Discuss therapeutic application of oligonucleotides.
- (c) Discuss endocrine drugs in detail? Also explain application of the analogs of various hormones with suitable examples
- (d) What do you understand by cardiovascular drugs? Discuss various types of drugs used in the treatment of cardiac associated problems.
- (e) What is Endogenous peptide? Briefly describe modifications of endogenous peptides and proteins?

SECTION C**3. Attempt any one part of the following:****10 x 1=10**

- (a) Define gene therapy? Briefly describe the various approaches for gene therapy and there advantages with their limitations.
- (b) Write an assay on organ specific drug targeting? Explain about targets and challenges in organ specific drug targeting.

4. Attempt any one part of the following:**10 x 1=10**

- (a) Discuss therapeutic application of oligosaccharides? Why glycoprotein is used in as therapeutic agent?
- (b) Discuss various strategies used brain specific drug delivery? Discuss various problems associated with brain associated drug delivery?

5. Attempt any *one* part of the following: 10 x 1=10

- (a) Discuss about anticoagulants in detail with suitable example?
- (b) Explain about cell specific drug delivery in detail.

6. Attempt any *one* part of the following: 10 x 1=10

- (a) Discuss in detail about agents which affect immune response? Write complication associated with Immune - compromised patients.
- (b) Explain polysaccharides bacterial vaccine in detail?

7. Attempt any *one* part of the following: 10 x 1 =10

- (a) What do you understand antiamebic and antiviral agents? Discuss with suitable example?
- (b) What are approaches used for carbohydrate based cancer vaccine in detail?

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