

Registration No. : 

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Total number of printed pages – 2

B. Tech  
PCBT 4401

## Seventh Semester Examination – 2011

### MEDICAL AND PHARMACEUTICAL BIOTECHNOLOGY

Full Marks – 70

Time : 3 - Hours

*Answer Question No. 1 which is compulsory and any **five** from the rest.*

*The figures in the right-hand margin indicate marks.*

1. Answer the following questions : 2×10
- (a) What is hormone? Give examples of two human hormones.
- (b) What is semi-synthetic antibiotic? Example two of them.
- (c) Define drug. What is CADD ?
- (d) Write four sentences on genomics.
- (e) What is a steroid? Give one example with structure.
- (f) Write the use of antibiotics.
- (g) Define antigen and antibody.
- (h) What is virology?
- (i) What is Hybridoma?
- (j) What is Electrophoresis?
2. Give details of “interferon” production by genetically engineered cells. 10

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3. Microbial transformation for the production of semi-synthetic antibiotic. 10
4. Write uses of biosensors for rapid clinical analyses. 10
5. Write on DNA vaccines. 10
6. Write briefly on separation and identification techniques for protein analysis. 10
7. Write notes on the followings : 2×5
  - (a) Gene Therapy
  - (b) Toxicogenomics
8. Write notes on the followings : 2×5
  - (a) Proteomics in drug development
  - (b) Diagnosis of diseases by proteomics

