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Total Number of Pages: 02

B.PHARM
PH.7.6**7th Semester Regular / Back Examination 2015-16**
PHARMA BIOTECHNOLOGY**BRANCH: B.PHARM****Time: 3 Hours****Max marks: 70****Q.CODE: T566****Answer Question No.1 which is compulsory and any five from the rest.**
The figures in the right hand margin indicate marks.

- Q1** Answer the following questions: **(2 x 10)**
- a) What is natural acquired passive immunity?
 - b) Define haptens.
 - c) Define Humulin.
 - d) Define HAT medium.
 - e) What is tolerance?
 - f) Define hypersensitivity reaction.
 - g) Define the term batch fermentation.
 - h) Microorganism used for preparation of penicillin by fermentation.
 - i) Define the term genetic recombination.
 - j) What is Streptokinase?
- Q2**
 - a) Define antigens and describe the factors affecting antigenicity. **(5)**
 - b) Describe about immunoglobulin G with detail structure. **(5)**
- Q3**
 - a) Describe in detail about genetic code. **(5)**
 - b) Explain gene regulation by lac operon model. **(5)**
- Q4** Draw a labeled diagram and describe each part of an aerobic fermentor in detail. **(10)**
- Q5**
 - a) Write down about Hybridoma technology for preparation of Monoclonal antibody. **(5)**
 - b) Describe different components of protein synthesis. **(5)**
- Q6**
 - a) Describe different methods of enzyme immobilization. **(5)**
 - b) What is microbial biotransformation? Write its advantages. **(5)**

Q7 a) Explain the process involved in the isolation of penicillin. (5)

b) Write the characteristic properties of an ideal matrix used for enzyme immobilization. (5)

Q8 Write short notes on any two: (5 x 2)

a) Foam plasma substitute.

b) PCR

c) PVP

d) The storage methods of whole human blood.