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**B. Pharm. (Sixth Semester)
EXAMINATION, MAY-JUNE, 2022**

Paper Fifth

PHARMACEUTICAL BIO TECHNOLOGY

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt all sections.

(Section-A)

(Objective/Multiple Choice Questions)

(2 mark each)

1. The nitrogen base absent in RNA is _____.
2. Protoplasts are cells devoid of _____.
3. In restriction endonuclease, EcoRI "E" stands for _____.
4. Which of the following is used for agitation and vigorous stirring of media?
(A) Spindle

P.T.O.

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- (A) Sparger
- (C) Motor
- (D) Impeller
5. Bioreactor is used for growth and maintenance of
(A) Eukaryotic Cell
(B) Prokaryotic Cell
6. Full form of MHC _____
7. ELISA stands for _____
8. Which part of antibody structure is occupied by variable region.
(A) Lower region
(B) In between the chains
(C) Upper Region
(D) Middle region
9. Which is the predominant immunoglobulin in the body?
(A) IgA
(B) IgG
(C) IgM
(D) IgE
10. In which immobilization method, the enzyme is bound to a suitable adsorbent material rendering it immobile _____.

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(Section- B)

(Long Answer Type Questions)

(10 marks each)

Note : Attempt any two questions.

1. Discuss immunity and its different types in detail.
2. Discuss rDNA technology and its applications.
3. What is enzyme immobilization? Discuss its various techniques with suitable diagram.

(Section - C)

(Short Answer Type Questions)

(5 marks each)

Note : Attempt any seven questions.

1. Hybridoma technology.
2. Write steps used in processing and storage of whole human blood.
3. What is conjugation?
4. MHC and its types.
5. Steps for Production of antibiotic by fermentation.
6. What are biosensors?

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7. Enumerate steps involved in PCR technique.
8. Storage and stability conditions of official vaccines.
9. What are the components of fermentar unit?