PAPER ID-420368

Subject Code: BP605T

Roll No: 1 9 0 9 1 3 0 5 0 0 0 3 3

BPHARMA
(SEM VI) THEORY EXAMINATION 2021-22
PHARMACEUTICAL BIOTECHNOLOGY– THEORY

Time: 3 Hours *Total Marks: 75*

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION: A

1. **Attempt *all* questions in brief.** 10 x 2 = 20

a.	Name any two methods of Enzyme Immobilization.
b.	What is the role of transducers in Biosensor?
c.	DNA Ligase and Restriction Endonuclease enzymes are used for which purpose?
d.	Give two applications of Genetic Engineering in medicine.
e.	Define the term Immunity.
f.	Name the immunoglobulin which is responsible for Rh immune response .
g.	Give full form of ELISA. Give its application also.
h.	Differentiate between Mutants & Mutagens.
i.	Who discovered Penicillin? Why it is more effective against Gram Positive Bacteria?
j.	Define Fermentation. Give two examples of Fermenter.

SECTION: B

2. **Attempt any *two* parts of the following:** 2 x 10 = 20

a.	Explain in detail biotechnological production of hormone *Insulin* by using rDNA technology.
b.	Discuss Hybridoma Technology in detail. Add a note on the applications of hybridoma technology.
c.	Write a descriptive note on i) ELISA ii) Western Blotting Technique

SECTION: C

3. **Attempt any *five* parts of the following:** 7 x 5 = 35

a.	Describe the principle of Biosensor. Explain different types of biosensors.
b.	Explain the production of enzyme Amylase or Protease. Discuss their applications also.
c.	Differentiate between Eukaryotic and Prokaryotic genome with the help of diagram.
d.	Classify Immunity. Compare and contrast Cellular & Humoral Immunity.
e.	What do you understand by *Interferon*? Write a descriptive note on Polymerase Chain Reaction (PCR)
f.	What are the different types of fermentation methods? Discuss.
g.	Give basic principles of genetic engineering.