Subject Code: BP605T

PAPER ID-311147

Roll No: | | | | | | | | | | | | | |

BPHARM
(SEM VI) THEORY EXAMINATION 2024-25
PHARMACEUTICAL BIOTECHNOLOGY– THEORY

TIME: 3 HRS **M.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.	Define biosensor.
b.	Write a short note on amylase.
c.	Write uses of lipase.
d.	How biotechnologically insulin is produced?
e.	Define hypersensitivity.
f.	Define conjugation.
g.	Give various types of mutation.
h.	Write the source of penicillin.
i.	Write the use of dried human plasma.
j.	Write the uses of glutamic acid.

SECTION B

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

a.	Discuss the role of biotechnology in pharmaceutical science.
b.	Explain the role of Recombinant DNA technology in pharmacy.
c.	Discuss the methods of sterilization used in biotechnology.

SECTION C

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

a.	Give a brief introduction of protein engineering employed in pharmacy.
b.	Give a brief introduction of polymerase chain reaction.
c.	Define immunity; give salient features of humoral immunity.
d.	Write the principle of hybridoma technology; how it incorporates in pharmacy.
e.	Discuss the principle and pharmaceutical importance of ELISA.
f.	Give the salient features of a typical fermenter.
g.	Write the method of collection and processing of whole human blood.