



Roll No:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

BPHARM
(SEM VI) THEORY EXAMINATION 2023-24
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.	Write the industrial use of catalase.
b.	Write the industrial use of penicillinase.
c.	Define interferon.
d.	Write the functions of MHC.
e.	Write the principle of western blotting.
f.	Define conjugation.
g.	Write short note on storage of vaccines.
h.	Define biosensors.
i.	Write the principle of PCR.
j.	Define humoral immunity.

SECTION B

2. Attempt any two parts of the following:

2 x 10 = 20

a.	How Recombinant DNA technology is helpful in vaccine manufacture.
b.	Compare the Genetic organization of Eukaryotes and Prokaryotes.
c.	Describe Large scale production fermenter design.

SECTION C

3. Attempt any five parts of the following:

7 x 5 = 35

a.	Give details of production of Vitamin-B12.
b.	Write the role of transduction in pharmacy.
c.	Explain hypersensitivity reactions.
d.	Write the principle and applications of hybridoma technology.
e.	Discuss the physical methods of sterilization.
f.	Enlist various blood products.
g.	Write a note on plasma substitutes.