

Total No. of Questions - 13] [Total No. of Printed Pages - 2]

DEC-23-0088

BP-605 T (Pharmaceutical Biotechnology)

B.Pharm-6th (PCI)

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BP-605 T

SECTION-B

(2×10=20)

Long Answer (Any Two)

Time : 3 Hours

Max. Marks : 75

Note: Section A is Compulsory, attempt all questions in this section. Attempt any Two questions from Section B and Seven questions from Section C.

SECTION-A

(10×2=20)

Short Answer (Compulsory)

1. Give short answers:

- i. Write the applications of biosensors.
- ii. Write a brief about PCR.
- iii. Write about MHC.
- iv. What is the application of western blotting?
- v. Write the names of sterilization methods.
- vi. Define genetic engineering.
- vii. Write about cloning vectors in brief.
- viii. Why insulin is needed for our body?
- ix. Write the function of MHC.
- x. What is the difference between humoral and cellular immunity?

2. Discuss Immuno blotting techniques with their applications.

3. Elaborate immunity and its types. Write about immunoglobulin and MHC.

4. A) Write the fermentation methods.

B) Write about collection, processing and storage of human whole blood.

SECTION-C

(7×5=35)

Short Note Answer (Any Seven)

5. Write about ELISA and its application.
6. Give the study of production of Penicillin and Vit. B12.
7. Define protein engineering and its applications.
8. Explain biosensors, their working and applications in Pharmaceutical Industries.
9. What are blood products and Plasma Substitutes?
10. Write a note on genetic organization of Prokaryotes and Eukaryotes.
11. Give an introduction to Microbial biotransformation and applications.
12. Write brief introduction to Biotechnology with reference to Pharmaceutical Sciences.
13. Write a short note on Hypersensitivity reactions, Immune stimulation and Immune suppressions.