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B PHARM

(SEM VI) THEORY EXAMINATION 2022-23 PHARMACEUTICAL BIOTECHNOLOGY

Time: 3 Hours Total Marks: 75

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

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SECTION A

1. Attempt all questions in brief.

 $10 \times 2 = 20$

- a. Explain role of catalase and peroxidase enzymes.
- b. What is protein engineering.
- c. Define vectors along with two examples.

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- d. What do you mean by PCR.
- e. Define cellular and humoral immunity.
- f. Define monoclonal antibodies.
- g. Explain mutation and mutagens with examples
- h. Explain ELISA. https://pharmacyindia.co.in/
- i. Define fermenter and their types.
- j. Write name of any two microorganisms used in production of citric acid.

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SECTION B

2. Attempt any two parts of the following:

 $2 \times 10 = 20$

- a. Explain biosensors and their types along with applications.
- b. Explain in detail about production and purification of monoclonal antibodies by hybridoma technology.
- c. Explain in detail PCR and its applications.

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SECTION (

3. Attempt any five parts of the following:

 $5 \times 7 = 35$

- a. Explain scope and application of pharmaceutical biotechnology.
- b. Write in detail different methods of enzyme immobilization.
- c. Write in detail the method of preparation of insulin by recombinant DNA technology.
- d. Differentiate between prokaryotes and eukaryotes.
- e. Explain the production of vitamin B12 by fermentation.

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- f. Explain general method of preparation and storage of bacterial vaccines.
- g. Explain different types of hypersensitivity reactions with example.

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