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Roll No.		Tota	al No. of Pages : 02

Total No. of Questions: 10

B.Pharma (2011 to 2016) (Sem.-7) PHARMACEUTICAL BIOTECHNOLOGY

Subject Code: BPHM-701 M.Code: 71753

Time: 3 Hrs. Max. Marks: 80

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt ANY FOUR questions.
- SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt ANY THREE questions.

SECTION-A

Define with examples :

- Biotechnology
- b. Fermenter
- c. Protease
- d. Enzymes
- e. Culture
- f. Antigen
- g. Cloning
- h. Transduction
- i. Biotransformation
- Antibodies

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Distinguish between:

- k. Batch culture and continuous culture
- active and passive immunity
- m. Toxin and Toxoid
- vaccine and antibiotics
- o. Penicillins and tetracyclines

SECTION-B

- Explain the principles of immune system.
- How Humulin is prepared by genetic recombination?
- Explain the factors influencing rate of mutation.
- Enumerate designing of biotransformation processes.
- Highlight the techniques of immobilization of enzymes.

SECTION-C

- How bacteria is immobilized? Explain streptokinase.
- 8. Explain the isolation of streptomycins by fermentation technology.
- Give construction and working including controlling of parameters of a fermenter.
- 10. Write short notes on:
 - a. Hepatitis B vaccine
 - b. Vitamin B12

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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