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Total No. of Questions: 10

B.Pharma (2012 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

Answer Briefly :

- a) Define haptens.
- b) What do you understand by humoral immunity?
- c) What is fed batch culture system?
- d) Define transformation
- e) What is hybridoma technology?
- f) What are different methods of enzyme immobilization?
- g) What are typical components used in fermentor media?
- h) What are baffles?
- Enlist methods of biotransformation of steroids.
- j) What is the application of biotechnology in pharmaceutical sciences?
- k) What is humulin?

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- What are the applications of amylase?
- m) Enlist the steps in isolation of penicillin.
- n) What do you understand by conjugation?
- o) What is the role of mutants in fermentation?

SECTION-B

- Elaborate the isolation of ethanol during fermentation.
- Write a note on adsorption method of enzyme immobilization with advantages and limitations.
- Write a note on mutant isolation.
- Differentiate batch and continuous culture system.
- What are different steps involved in gene cloning?

SECTION-C

- Write a note on production of monoclonal antibodies.
- 8. What are biotransformation methods?
- 9. What are fermentors? What is the typical design of a fermentor?
- Write a note on immune system with special reference to immune intolerance.

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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