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## B.Pharm III Year I Semester (R15) Regular Examinations November 2017

## PHARMACEUTICAL BIOTECHNOLOGY

Time: 3 hours Max. Marks: 70

## PART - A

(Compulsory Question)

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- 1 Answer the following:  $(10 \times 02 = 20 \text{ Marks})$ 
  - (a) Write the functions of baffle.
    - (b) Write a note on fungal diastase.
    - (c) Write about interferon.
    - (d) Differentiate between submerged and solid state fermentation.
    - (e) Give a brief note on whole cell immobilization.
    - (f) Write in brief about antitoxins.
    - (g) Write any two uses of pepsin.
    - (h) Give a brief account on lactobacillus.
    - (i) Define proteomics.
    - (j) Write briefly on solid state fermentation.

## PART - B

(Answer all five units,  $5 \times 10 = 50 \text{ Marks}$ )

[ UNIT – I ]

Write in detail about the function and uses of fermenter accessory units. Add note on secondary metabolites.

OR

Write in detail about the working of fermenter with a neat diagram. Write brief notes on baffles.

UNIT – II

4 Explain in detail the production of monoclonal antibodies by Hybridoma technique.

OR

5 Define R-DNA technology. Describe the production of synthetic vaccine hepatitis – B by R-DNA technology.

UNIT – III

- 6 Describe the process for preparation of:
  - (a) Cholera vaccine.
  - (b) Polio vaccine.

OR

7 Explain in detail various antigen – antibody reactions.

UNIT - IV

8 Explain in detail various methods used for immobilization of enzymes with examples.

OR

- 9 Give a note on:
  - (a) Penicillinase.
  - (b) Streptokinase enzyme.

[ UNIT - V ]

10 Explain in detail applications of bioinformatics in different fields of science.

OR

Write applications of proteomics and write a note on its limitations.