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## Code: 15R00504

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

Time: 3 hours

1

Max. Marks: 70

## PART – A

(Compulsory Question)

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- Answer the following: (10 X 02 = 20 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 X 10 = 50 Marks)

# UNIT – I

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

# 3 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

OR

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

### 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

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

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