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Code No. 1195

FACULTY OF PHARMACY

B. Pharmacy 4/4 II-Semester (Main) Examination, April 2018

Subject : Pharmaceutical Biotechnology

Time : 3 Hours

Max. Marks: 70

Note: Answer all questions. All questions carry equal marks.

- 1 (a) Define rDNA technology. Write the steps involved in the manufacture of Insulin by rDNA technology.
- OR
- (b) Write about the following (any two)
- (i) Gene expression of rDNA
 - (ii) Interferons
 - (iii) Restriction Endonucleases
- 2 (a) Give an account of microbiological assay of antibiotics as per I.P.
- OR
- (b) Briefly explain any two of the following:
- (i) Maintenance of Industrial microorganism.
 - (ii) Batch and continuous fermentation
 - (iii) Immobilization of Enzymes
- 3 (a) (i) Write the preparation and purified form of diphtheria vaccine.
(ii) Explain about immunodiagnostic preparation for TB
- OR
- (b) Give an account of viral vaccines.
- 4 (a) Explain the preparation of dried human plasma. Explain its advantages of whole human blood.
- OR
- (b) What are requirements of an ideal plasma substitute? Explain the preparation of dextran.
- 5 (a) Give an account of microbial transformation of steroids.
- OR
- (b) Explain animal cell culture techniques and their applications.
