www.FirstRanker.com

www.FirstRanker.com

R10Code No: B3205/R10

III B.Pharmacy II Semester Supplementary Examinations, Nov - 2016 PHARMACEUTICAL BIOTECHNOLOGY

Time: 3 hours Max Marks: 75

Answer any FIVE Questions All Questions carry equal marks

- 1. (a) Discuss the design, construction and operation of an aerated fermenter.
 - (b) Differentiate between solid state and submerged fermentation. [12+3]
- 2. Explain the inoculum preparation and production medium composition for the production of
 - (a) Streptomycin
 - (b) Riboflavin
 - (c) Alcohol
 - (d) tetracycline [4+4+4+3]
- 3. (a) Explain the different methods for selection of microorganisms for biotransformation reactions.
 - (b) Based on the chemical principle classify the biotransformation reactions with suitable examples. [8+7]
- 4. Describe the Production of the following Recombinant Proteins
 - (a) Monoclonal antibodies
 - [8+7](b) Humulin
- 5. Compare active and passive immunity

[15]

- 6. Write about sources of biocatalysts and techniques for biotransformation. [15]
- 7. (a) Write the difference between whole human blood and Dried plasma protein fraction.
 - [10+5](b) Write a short note on anticoagulants.
- 8. What is NCBI? Write in detail about NCBI. [15]
