

**Code No: B3205/R10**

Set No.1

**III B.Pharmacy II Semester Supple. Examinations, April/May 2017**  
**PHARMACEUTICAL BIOTECHNOLOGY**

Time: 3 hours

Max Marks: 75

Answer any FIVE Questions  
All Questions carry equal marks

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1. (a) Explain the optimization of fermentation process.  
(b) Explain the maintenance of aseptic conditions in a fermenter. [8+7]
2. Explain the inoculum preparation and production medium composition for the production of  
(a) Erythromycin  
(b) Lysin  
(c) Lactic acid  
(d) Acetone [3+4+4+4]
3. (a) Explain in detail about any one method of vinegar production  
(b) Add a note on condensation biotransformation reactions. [8+7]
4. Write the procedure for  
(a) Transfer of DNA insert from one vector to another  
(b) Introduction of recombinant DNA into a suitable host [8+7]
5. Explain antigen-antibody reaction i.e. nature of reaction [15]
6. Define microbial biotransformation and reactions involved in biotransformation [15]
7. Describe the collection, processing and storage of  
(a) Whole Human blood.  
(b) Catgut. [8+7]
8. Write in detail about DNA Sequencing methods. [15]

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