

[LB 4266]

AUGUST 2012

Sub. Code: 4266

THIRD YEAR B.PHARM. EXAM

(Common to regulation 2004 – IV year candidates)

PHARMACEUTICAL BIOTECHNOLOGY***Q.P. Code : 564266*****Time : Three hours****Maximum: 100 Marks****(180 Min) Answer ALL questions in the same order****I. Elaborate on:****Pages Time Marks
(Max.)(Max.)(Max.)**

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|--|----|----|----|
| 1. a) Explain the Structure and Reproduction of Fungi. | 19 | 33 | 20 |
| b) Sterility testing for Pharmaceutical preparations. | | | |
| 2. a) Define antigen and antibody. Explain the antigen-antibody reactions. | 19 | 33 | 20 |
| b) Define Immobilization. Explain the different methods of immobilization with applications. | | | |

II. Write notes on:

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|---------------------------------|---|---|---|
| 1. Counting of Bacteria. | 3 | 8 | 5 |
| 2. Evaluation of Disinfectants. | 3 | 8 | 5 |
| 3. Microbial assay of Vitamins. | 3 | 8 | 5 |
| 4. Single Cell Protein. | 3 | 8 | 5 |
| 5. Immuno deficiency diseases. | 3 | 8 | 5 |
| 6. Production of Insulin. | 3 | 8 | 5 |
| 7. Production of Citric Acid | 3 | 8 | 5 |
| 8. Maintenance of cell culture. | 3 | 8 | 5 |

III. Short Answers

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|--|---|---|---|
| 1. Bacterial Flagella. | 1 | 5 | 2 |
| 2. Moist heat sterilization. | 1 | 5 | 2 |
| 3. Transduction. | 1 | 5 | 2 |
| 4. Types of Immunity. | 1 | 5 | 2 |
| 5. Viral vaccines. | 1 | 5 | 2 |
| 6. Western blot. | 1 | 5 | 2 |
| 7. Restriction endonucleases. | 1 | 5 | 2 |
| 8. Cell line with examples. | 1 | 5 | 2 |
| 9. Microbial Biotransformation. | 1 | 5 | 2 |
| 10. Source of organisms for the production of Vitamin B12. | 1 | 5 | 2 |
