



(LI 4266)

**FEBRUARY 2016**

Sub. Code: 4266

**THIRD YEAR B.PHARM. EXAMINATION**  
(Common to Regulations 2004 – IV year candidates)  
**PAPER VI - PHARMACEUTICAL BIOTECHNOLOGY**

*Q.P. Code: 564266*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Essay:**

**(2 x 20 = 40)**

1. a) Explain building blocks of Protein Synthesis in a Bacterial cell.  
b) Immuno blotting techniques of ELISA and Western blot.
2. a) Classify different methods of Sterilization. Explain merits and demerits of physical methods of Sterilization.  
b) Add a note of Sterilization by filtration.

**II. Short notes:**

**(8 x 5 = 40)**

1. Transduction.
2. Isolation and identification of Bacteria.
3. Describe the structure of DNA with neat diagram.
4. Fermentative production of Citric acid
5. How an antibiotic can be assayed by Biological Method?
6. Biosensors.
7. Bio assay of Vitamins.
8. Bacterial counting techniques.

**III. Short answers:**

**(10 x 2 = 20)**

1. Mean generation time.
2. Incineration.
3. Fimbria and Pili.
4. DNA Gyrase & DNA Ligase.
5. Nucleotide.
6. Write the three letters of Initiating Codons and Terminating Codons.
7. Sparge
8. Live Bacterial vaccines.
9. Restriction endonucleases.
10. Down streaming process.

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