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[KZ 4266] Sub. Code: 4266

## THIRD B.PHARM. EXAMINATION

(Common to regulation 2004 - IV year candidates)

## PHARMACEUTICAL BIOTECHNOLOGY

Q.P. Code: 564266

Time : Three hours Maximum: 100 Marks

Answer ALL questions.

I. LONG ESSAYS  $(2 \times 20 = 40)$ 

a) Describe the structure of Bacteria with neat diagram.

- b) Microbiological assay of antibiotics.
- 2. a) Discuss the various types of sterilization with examples.
  - b) Explain the production of Monoclonal antibodies with applications.

II. SHORT NOTES  $(8 \times 5 = 40)$ 

- 1. Test for Sterility.
- 2. Evaluation of Disinfectants.
- Microbial Biotransformation.
- 4. Hypersensitivity Reactions.
- 5. Cloning Vectors.
- 6. Production of Alcohol.
- 7. Media for Animal cell culture.
- 8. Methods of Immobilization

## III. SHORT ANSWERS (10 x 2 = 20)

- Lytic and Lysogenic cycle.
- Conjugation.
- Functions of MHC.
- 4. Southern blot.
- Gene expression.
- Source of organisms for the production of citric aci
- 7. Primary culture.
- Biosensors.
- 9. Cell Line with Examples.
- Live bacterial vaccines.

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