QP CODE: 311006 (new scheme)

Third Year B.Pharm Degree Examinations June 2017

PHARMACEUTICS III (Pharmaceutical Microbiology and Biotechnology) (2012 Scheme)

Time: 3 Hours

- Answer all Questions.
- Draw diagram wherever necessary.

Essay

- 1. Define r-DNA. Explain various methods of r-DNA technology.
- 2. Define fermentation. Describe the principle, design and construction of fermenter.
- 3. Define virus. Classify them and explain their morphology, structure and cultivation.

Short notes

- 4. Classify microbes based on their taxonomy.
- 5. Brief about differential and selective medium.
- 6. Method of isolation of pure culture.
- 7. Techniques of isolation of mutants.
- 8. Types of antibody.
- 9. Brief immunological tolerance.
- 10. Difference between active and passive immunization.
- 11. Principle involved in radiation sterilization.
- 12. Various methods of chemical sterilization with example.
- 13. Standardization of antibiotics.
- 14. Down-streaming process of amylase with diagram.
- 15. Selection of microorganisms for microbial transformation.
- 16. Types of reaction mediated by microorganisms in microbial transformation.
- 17. Lysogenic cycle of virus with example.

Total Marks: 100

(3x10=30)

(14x5=70)

Reg.No: