Second Year Pharm D Degree Regular/Supplementary Examinations November 2021

Pharmaceutical Microbiology

Time: 3 Hours Total Marks: 70

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Essays (3x10=30)

- 1. Mention the causative organism, mode of transmission, signs and symptoms, diagnosis and prevention of AIDS.
- 2. Add a note on continuous cultivation of bacteria. Detail batch culture.
- 3. What is pure culture. Enlist methods for isolation of pure culture. Describe any two industrially important techniques of preserving bacteria.

Short notes (8x5=40)

- 4. Define the following:
 - Pasteurization Phagocytosis. Tyndallisation Incineration Antisepsis
- 5. Write principle, procedure and applications of Western Blotting technique.
- 6. Write the procedure, merits and demerits of membrane filtration.
- 7. Differentiate gram-positive and gram-negative cell wall and also mention the role of each chemical used in gram- staining.
- 8. Explain any three Ag-Ab reactions
- 9. Explain the sterilization by autoclaving
- 10. Enriched media and selective media
- 11. Describe the ultra-structure of bacteria with a neat labelled diagram
