2012 Scheme

Q P CODE: 311006 Reg. No:

Third Year B.Pharm Degree Supplementary Examinations December 2022 Pharmaceutics III

(Pharmaceutical Microbiology and Biotechnology)

Time: 3 Hours Total Marks: 100

- 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
- Write chemical structures/equations wherever necessary.

Essays (3x10=30)

- 1. Explain production of Vitamin B₁₂ by fermentation process
- 2. Discuss factors affecting the efficacy of disinfection including its evaluation tests
- 3. Describe reproduction and cultivation of fungi with its pharmaceutical application

Short notes (14x5=70)

- 4. Discuss the indicators used in validation of dry heat sterilization
- 5. Explain virus-host interactions
- 6. Elaborate bacterial counting
- 7. Explain antigen-antibody reactions with its applications
- 8. Explain active and passive immunization
- 9. How are bacterial vaccines standardized
- 10. Explain types of staining techniques
- 11. Explain downstream process of fermentation
- 12. Define sterility testing and methods used for sterility testing
- 13. Mention the applications of monoclonal antibodies
- 14. Explain Hybridoma techniques
- 15. Describe the phases in a bacterial growth curve
- 16. What are disinfectants. Enlist ideal properties of disinfectants
- 17. Enlist factors influencing rate of mutation

CORRECTION / NO-CORRECTION FILE

QPCODE: 311006 Dated: 12-12-2022

Question No.6

Replaced With "Bacteriophages."

Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.

(Sd/-)

CONTROLLER OF EXAMINATIONS