

III B. Pharmacy I Semester Supplementary Examinations, Oct/Nov - 2020
PHARMACEUTICAL MICROBIOLOGY

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions
All Questions carry **Equal** Marks

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1. a) Write in detail on the contributions made by Pasteur and Lister. (8M)  
b) Discuss the scope and significance of microbiology in pharmaceutical industry. (7M)
2. a) Write the biochemical tests used for identification of microorganisms. (10M)  
b) Explain the pharmaceutical significance of virus. (5M)
3. a) Write a note on composition of nutrient media. (6M)  
b) With a neat sketch explain the microbial growth curve and its applications. (9M)
4. Discuss the mechanisms involved in microbial adaptation process for (15M)  
(a) Desiccation (b) Radiation (c) Osmotic pressure
5. Define disinfection. Classify disinfection methods used in pharmaceutical industry. Write (15M)  
in detail on chemical agents used for disinfection.
6. Write short notes on (15M)  
(a) translation (b) MIC (c) Drug resistance
7. Discuss the etiology, source of infection mode of transmission, diagnosis and (15M)  
prevention/control of  
(a) Tuberculosis (b) Food poisoning (c) Syphilis
8. a) Write the principle, procedure and significance of microbial assay for amino acids. (6M)  
b) Explain the role of microbes as a source of antibiotics. (9M)