FACULTY OF SCIENCE

M.Sc. II-Semester Examination, May / June 2017

Subject: Microbiology
Paper- IV
Pharmaceutical Microbiology

Time : 3 Hours
Max. Marks: 80

PART – A (8x4=32 Marks)
(Short Answer Type)

1. Antimicrobials as preservatives
2. Spoilage of pharmaceutical products
3. Antitubercular Compounds
4. Non – medical uses of antibiotics
5. Nystatin
6. Choice of drug
7. ELISA
8. Phenol coefficient

PART – B (4x12=48 Marks)
(Essay Answer Type)

9.(a) Explain how the antimicrobial agents be used as preservatives for pharmaceutical products.

(b) Discuss on the types of microorganisms occurring in pharmaceutical products.

10.(a) What are antibiotics? Write the types of antibiotics and their classification.

(b) Write an essay on testing methods and preservation in cosmetic microbiology.

11.(a) What are Betalactams? Explain their mode of action and significance.

(b) Explain the principles of chemotherapy adding a note on the usage of drugs.

12.(a) Highlight on the biochemistry and genetics of drug resistance in bacteria.

(b) What are nutritional mutants, write about their significance in pharmaceutical industries.

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