

UNIVERSITY OF JAFFNA, SRI LANKA
BACHELOR OF PHARMACY
SECONDYEAR FIRST SEMESTER EXAMINATION – August 2017
PHAMB 2163Pharmaceutical Microbiology
PAPER II

Answer all 06 questions.

Date:25.08.2017

Time: 2 hours

1.
 - 1.1 Pharmaceutical ingredients are susceptible to microbial attack'. Discuss the statement with examples. (50 Marks)
 - 1.2 List the possible sources of microbial contamination in pharmaceuticals. (20 Marks)
 - 1.3 Explain the observable effects of microbial contamination in pharmaceuticals. (30 Marks)

2.
 - 2.1 Explain the factors which affect the microbial spoilage. (70 Marks)
 - 2.2 Explain how microbial contamination is prevented when manufacturing thermolabile sterile pharmaceuticals. (30 Marks)

3.
 - 3.1 Define sterility testing. (15 Marks)
 - 3.2 Describe the methodology used to select samples for sterility testing. (30 Marks)
 - 3.3 Explain the membrane filtration method of sterility testing (30 Marks)
 - 3.4 Describe antimicrobial agent used in sterility testing. (25 Marks)

4.
 - 4.1 Define the term "disinfectant". (10 Marks)
 - 4.2 List four (04) groups of compounds that can be used as disinfectants. (20 Marks)
 - 4.3 Describe the properties of compounds that are listed in 4.2. (70 Marks)

5.
 - 5.1 Briefly describe the factors that affect the disinfectant activity of antimicrobials. (25 Marks)
 - 5.2 List three (03) laboratory tests that are used to measure the activity of antimicrobials. (15 Marks)
 - 5.3 Describe the laboratory tests that are mentioned in 5.2. (60 Marks)

6.
 - 6.1 Write an account on following pharmaceutical products.
 - 6.1.1 Surgical ligatures (50 Marks)
 - 6.1.2 Types of ophthalmic preparations (50 Marks)