

UNIVERSITY OF JAFFNA, SRI LANKA
BACHELOR OF PHARMACY
SECOND YEAR FIRST SEMESTER EXAMINATION – NOVEMBER 2014
PHAMB 2106 PHARMACEUTICAL MICROBIOLOGY

Date: 05/12/2014

Time: 02 Hours

Answer all 8 questions.

1.
 - 1.1 List six (06) observable effects of microbial contamination on pharmaceutical products. (30 Marks)
 - 1.2 What are the sources for microbial contamination in pharmaceutical products? (70 Marks)

2.
 - 2.1 Define the followings
 - 2.1.1. Sporicide (10 Marks)
 - 2.1.2. Viricide (10 Marks)
 - 2.2 Describe physical methods that are used to control microbial growth. (80 Marks)

3.
 - 3.1 Define “Ophthalmic preparations” (20 Marks)
 - 3.2 Name four (04) ophthalmic preparations that are available in the market? (20 Marks)
 - 3.3 Describe the different types of contact lens solutions. (60 Marks)

4.
 - 4.1 Define “Sterility testing” (20 Marks)
 - 4.2 What are the limitations of sterility testing? (20 Marks)
 - 4.3 Briefly describe the direct inoculation procedure and membrane filtration technique that are being used for sterility testing. (60 Marks)

5.
 - 5.1 Define “Bacteriostatic” activity and “Bactericidal” activity. (20 Marks)
 - 5.2 Describe a test to determine the
 - 5.2.1 bacteriostatic activity. (40 Marks)
 - 5.2.2 bactericidal activity. (40 Marks)

6.
 - 6.1 Define “disinfection” (20 Marks)
 - 6.2 List the different types of disinfectants. (20 Marks)
 - 6.3 Briefly explain the mechanism of actions of each of the above disinfectants. (60 Marks)

7.
 - 7.1 Explain the essential characteristics of suture materials (50 Marks)
 - 7.2 Write an explanatory notes on “sterilized surgical catgut”. (50 Marks)

8. Write an account on good laboratory practice. (100 Marks)