

UNIVERSITY OF JAFFNA, SRI LANKA
BACHELOR OF PHARMACY
SECOND YEAR FIRST SEMESTER EXAMINATION – AUGUST 2016
PHAMB 2106 PHARMACEUTICAL MICROBIOLOGY

Date: 19/08/2016

Time: 02 Hours

Answer all 8 questions.

1. 1.1 List five (05) observable effects of microbial contamination on pharmaceutical products. (20 Marks)
- 1.2 Explain the causes for the abnormal changes during the manufacture of pharmaceutical products. (30 Marks)
- 1.3 Describe the sources for microbial contamination in pharmaceutical products? (50 Marks)
2. 2.1 Define the term DNA recombinant technology. (20 Marks)
- 2.2 List five (05) pharmaceutical products that are produced by DNA recombinant technology. (20 Marks)
- 2.3 Describe the DNA recombinant technology using human insulin production as an example. (60 Marks)
3. 3.1 Define “Ophthalmic preparations” (20 Marks)
- 3.2 Write explanatory notes for the following ophthalmic preparations.
 - 3.2.1 Eye drops (40 Marks)
 - 3.2.2 Eye lotions (20 Marks)
 - 3.2.3 Eye ointments (20 Marks)
4. 4.1 Define the term “Sterilization” (20 Marks)
- 4.2 Give the expected characters of sterilization technique? (20 Marks)
- 4.3 Describe three sterilization methods. (60 Marks)
5. Describe laboratory tests to determine
 - 5.1 Bacteriostatic activity (60 Marks)
 - 5.2 Bactericidal activity (20 Marks)
 - 5.3 Antiviral activity (20 Marks)
6. 6.1 List the factors that influence antimicrobial activity? (20 Marks)
- 6.2 Describe the properties of the groups of compounds that can be used as disinfectants. (80 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. ~~8.1~~ Write an account on Good Laboratory Practices (GLPs). (100 Marks)