

UNIVERSITY OF JAFFNA, SRI LANKA
FACULTY OF ALLIED HEALTH SCIENCES
SECOND YEAR FIRST SEMESTER EXAMINATION IN BPharmHons-2020
PHAMB 2163 PHARMACEUTICAL MICROBIOLOGY

Date:15.06.2022

Time: 02 hours

ANSWER ALL SIX QUESTIONS

1.
 - 1.1. Describe the role of micro-organism in the spoilage of pharmaceutical products. (50 Marks)
 - 1.2. Explain the factors affecting the microbial spoilage in pharmaceutical products. (30 Marks)
 - 1.3. List the ideal properties of preservatives used in pharmaceuticals. (20 Marks)
2.
 - 2.1. Define
 - 2.1.1. aseptic processing. (10 Marks)
 - 2.1.2. terminal sterilization. (10 Marks)
 - 2.2. Differentiate the above mentioned terms in 2.1.1 and 2.1.2. (20 Marks)
 - 2.3. List the essential elements of aseptic processing. (20 Marks)
 - 2.4. Explain the procedure of air sampling used in environmental monitoring. (40 Marks)
3.
 - 3.1. Define disinfectant. (10 Marks)
 - 3.2. Classify the disinfectant based on consistency and give one example to each. (20 Marks)
 - 3.3. Explain the factors to be considered when choosing a disinfectant. (30 Marks)
 - 3.4. Describe the principle of phenol coefficient test. (40 Marks)
4.
 - 4.1. Explain the term
 - 4.1.1. disinfection. (10 Marks)
 - 4.1.2. sterility test. (10 Marks)
 - 4.2. Describe the moist heat sterilization by using autoclave. (30 Marks)
 - 4.3. Explain the direct inoculation method used for sterility testing. (30 Marks)
 - 4.4. Write down the general precautions taken in environmental hygiene to control the microbial contamination during sterility testing of pharmaceuticals. (20 Marks)
5.
 - 5.1. List five (05) sterile pharmaceutical products. (20 Marks)
 - 5.2. Explain the essential characteristics of suture materials. (40 Marks)
 - 5.3. Describe the different methods used to sterilize suture materials. (40 Marks)
6. Write an account on
 - 6.1. disk diffusion test. (30 Marks)
 - 6.2. growth promotion test. (30 Marks)
 - 6.3. rabbit pyrogen test. (40 Marks)