

UNIVERSITY OF JAFFNA, SRI LANKA  
FACULTY OF ALLIED HEALTH SCIENCES  
THIRD YEAR SECOND SEMESTER EXAMINATION IN BPharmHons – 2019  
PHAHP 3236 HOSPITAL PHARMACY

Date: 28.02.2022

Time: 03 Hours

**Answer All EIGHT Questions. Marks allocated to each part are given within brackets.**

**Answer Part A, Part B, Part C in separate answer book**

**PART A**

1.
  - 1.1 Briefly discuss the responsibilities of hospital pharmacists. (40 marks)
  - 1.2 Explain the services provided by hospital pharmacy. (30 marks)
  - 1.3 Discuss the facilities available in an ideal hospital pharmacy. (30 marks)
2.
  - 2.1 Write down the functions of Drug and Therapeutic Committee. (40 marks)
  - 2.2 Briefly explain on Institutional Drug and Therapeutic Committee. (60 marks)
3.
  - 3.1 What are the policies and procedures involved in sterile compounding? (40 marks)
  - 3.2 Briefly explain Total Parenteral Nutrition (TPN) preparation. (60 marks)
4.
  - 4.1 What are the information needed for the effective control of the drugs? (20 marks)
  - 4.2 Briefly explain the ideal storage environment for drugs. (20 marks)
  - 4.3 Explain how cold chain is maintained from the time of manufacturing to till it reaches patient. (60 marks)
5.
  - 5.1 What are the in-patient medication management? (10 marks)
  - 5.2 Explain briefly the cost analysis methods. (30 marks)
  - 5.3 Explain the steps in successful patient counselling session. (60 marks)

**Part B**

6.
  - 6.1 Distinguish between photon and particle radiation. (15 marks)
  - 6.2 What is “radio isotopes”? and give two examples of it. (20 marks)
  - 6.3 Why gamma emitting radionuclides are used in gamma camera? (15 marks)
  - 6.4 Briefly describe how positron decay used in nuclear medicine imaging? (20 marks)
  - 6.5 Briefly discuss on chromosomal aberration by ionizing radiation. (30 marks)

7. 7.1 What is "radiopharmaceutical"?. (10 Marks)
- 7.2 List the features of radionuclide Tc-99m used in nuclear medicine imaging. (25 Marks)
- 7.3 A radiopharmaceutical in a given dose is producing the exposure rate is 8.0 R/hr. Estimate the exposure rate, if the same dose of radiopharmaceutical is placed in a lead shield syringe with the thickness of 2.5 mm. (The half-value layer of lead for Tc-99m is 0.3 mm) (30 Marks)
- 7.4 Briefly discuss the working principle of a scintillation detector in measurement of ionizing radiation. (35 Marks)

**Part C**

8. 8.1 What are the types of disaster in hospitals and examples? (30 Marks)
- 8.2 What are impacts and the role of health sector during disaster? (30 Marks)
- 8.3 How to prevent deaths and damages from disaster? (40 Marks)

Allied Health Sciences