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**UNIVERSITY OF JAFFNA, SRI LANKA**  
**BACHELOR OF PHARMACY**  
**THIRD YEAR SECOND SEMESTER EXAMINATION – February 2018**  
**PHAHC 3236 HOSPITAL PHARMACY**

**PAPER II**

Answer each part A, B and C in a separate answer book

Date: 07.03.2017

Time: 03 hours

**Part A**

1. Write an account on
  - 1.1 Cold chain Monitor card (40 Marks)
  - 1.2 Cold chain management. (60 Marks)
  
2. Write short notes on followings:
  - 2.1 Billing of prescription. (50 Marks)
  - 2.2 Functions of hospital pharmacist. (50 Marks)
  
3.
  - 3.1 Explain the function of Medical Supply Division. (50 Marks)
  - 3.2 Describe the factors which should be considered for the annual estimation of medicine. (20 Marks)
  - 3.3 Write the importance of “VEN” and “ABC” analysis in the annual medicine estimation. (30 Marks)
  
4.
  - 4.1 Describe the infrastructure requirement for the hospital pharmacy. (50 Marks)
  - 4.2 Explain “tracking and tracing” procedure in pharmaceutical supply chain. (50 Marks)
  
5. Write the procedure for
  - 5.1 receiving damaged medicine in Divisional Hospital. (40 Marks)
  - 5.2 disposal of expired medicine in a drug store. (30 Marks)
  - 5.3 drug store security. (30 Marks)

### **Part B**

- 6.
- 6.1 Give one similarity and one dis-similarity between beta and gamma radiation and give an example for each types of radiation used in medicine. (20 Marks)
  - 6.2 Give the ways of interaction of X-rays on tissues and describe the contribution of these interactions on the quality of X-ray images. (25 Marks)
  - 6.3 Briefly discuss how probabilities of mentioned interactions in 6.2 are related to the X-ray energy and atomic number of tissue. (25 Marks)
  - 6.4 Briefly describe how a radiographer set the parameters in X-ray equipment to get the good quality of image. (30 Marks)
- 7.
- 7.1 Define “radionuclide generator” in nuclear medicine. (10 Marks)
  - 7.2 Briefly describe the radiopharmaceutical labeling techniques used in nuclear medicine. (40 Marks)
  - 7.3 Briefly explain why “C-11 labeled” radiopharmaceutical contains less activity than C-11 radionuclide? (15 Marks)
  - 7.4 List the features of Tc-99m radionuclide used in nuclear imaging. (35 Marks)

### **Part C**

- 8.
- 8.1 Briefly explain the types of wastes in hospitals. (25 Marks)
  - 8.2 Explain the waste management plan in hospitals. (40 Marks)
  - 8.3 List the pharmaceutical wastes. (10 Marks)
  - 8.4 Briefly explain the disposal methods of pharmaceutical wastes. (25 Marks)