

UNIVERSITY OF JAFFNA, SRI LANKA
FACULTY OF ALLIED HEALTH SCIENCES
SECOND YEAR FIRST SEMESTER EXAMINATION IN BPHARM Hons- 2019
PHACE 2134 PHARMACEUTICS II – paper II

Date: 03.12.2021

Time: 02 Hours

ANSWER ALL QUESTIONS

1. 1.1 Define the terms:
 - 1.1.1 prescription refill. (10 marks)
 - 1.1.2 prescription blank. (10 marks)
- 1.2 Explain the responsibilities of pharmacists when receiving a prescription. (30marks)
- 1.3 Briefly describe the dispensing procedure of a pharmacist on receipt of a prescription for extemporaneous preparation. (50 marks)

2.
 - 2.1 Differentiate primary and secondary packaging materials. (20 marks)
 - 2.2 List the factors considered in selection of packaging for a pharmaceutical product. (25 marks)
 - 2.3 Describe the characters of child resistant closures (CRCs). (25 marks)
 - 2.4 Briefly explain the advantages and disadvantages of the glass as a packaging materials. (30 marks)

3.
 - 3.1 List the factors that influence on the determination of a dose. (40 marks)
 - 3.2 Describe how medication errors could be prevented? (60 marks)

4.
 - 4.1 Define the term 'Pharmaceutical incompatibilities'. (10 marks)
 - 4.2 Write an account on 'Chemical incompatibilities'. (30 marks)
 - 4.3 Briefly describe the correction methods of the physical incompatibilities with examples. (60 marks)

5.
 - 5.1 Explain the benefits of using barcode for pharmaceutical product label preparation. (40 marks)
 - 5.2 Briefly describe the professional requirements for labelling of dispensed medicines. (60 marks)

6. Describe the preparations of the following:
- 6.1 six (06) hyoscine hydro bromide powders packets each containing 0.6 mg. (40 marks)
 - 6.2 hundred milliliter (100 ml) of 40.24 OP from Alcohol BP. (30 marks)
 - 6.3 sixty gram (70g) of 8% Cetrimide cream using 2% and 16% of Cetrimide creams. (30 marks)
- 7.
- 7.1 The hospital pharmacist is requested to supply an intravenous fluid. The Intravenous fluid should have 1 % anhydrous dextrose, 1.0% magnesium phosphate and sodium chloride to adjust for isotonicity. How will you prepare the above fluid?
The molecular weights of :
Anhydrous dextrose – 180.
Magnesium phosphate – 263.
Sodium chloride - 58.5. (55 marks)
 - 7.2 Find the amount of sodium chloride to be included in 100 mL of a 0.3 % solution of zinc sulphate so that, on dilution with an equal quantity of water, it will be iso-osmotic with tissue fluids. Freezing point of 1% w/v solution of zinc sulphate and 1% solution of sodium chloride are -0.086°C and 0.576°C respectively. (45 Marks)
8. Write short notes on:
- 8.1 radiopharmaceuticals. (50 marks)
 - 8.2 stability testing. (50 marks)