

UNIVERSITY OF JAFFNA, SRI LANKA
BACHELOR OF PHARMACY
SECOND YEAR FIRST SEMESTER EXAMINATION – SEPTEMBER 2018
PHACE 2134 Pharmaceutics II
PAPER II

Date: 22.09.2018

Time: 2 hours.

ANSWER ALL EIGHT QUESTIONS.

1.
 - 1.1 Define the terms.
 - 1.1.1 Prescription. (10 Marks)
 - 1.1.2 Prescription blank. (10 Marks)
 - 1.2 Explain the responsibilities of pharmacists when receiving a prescription. (30 Marks)
 - 1.3 List the parts of prescription and explain the importance. (50 Marks)
2.
 - 2.1 Define the term 'extemporaneous preparations'. (10 Marks)
 - 2.2 Describe the dispensing procedure of extemporaneous preparation. (60 Marks)
 - 2.3 Compare official and non-official formulae for pharmaceutical product. (30 Marks)
3. How would you prepare
 - 3.1 and dispense six (06) sachet of 0.025 microgram digoxin? Please note that Class 2B dispensing balance is only available. (50 Marks)
 - 3.2 an injection containing morphine sulphate 1 %, and sodium metabisulphate 0.1 % which is iso- osmotic with plasma. Freezing point depression of morphine sulphate, sodium metabisulphate, and sodium chloride are 0.08°C, 0.386 °C and 0.576° C respectively. (30 Marks)
 - 3.3 5% salicylic acid ointment from 10% and 2% salicylic acid ointment. (20 Marks)
4.
 - 4.1 Briefly explain the following terms
 - 4.1.1 Physical incompatibility. (10 Marks)
 - 4.1.2 Chemical incompatibility. (10 Marks)
 - 4.1.3 Therapeutic incompatibility. (10 Marks)
 - 4.2 List the reasons for physical incompatibility of pharmaceuticals. (30 Marks)
 - 4.3 Describe the methods that are used to correct physical incompatibilities. (40 Marks)

- 5.
- 5.1 Write the requirements for
 - 5.1.1 legal labeling of pharmaceuticals. (30 Marks)
 - 5.1.2 professional labeling of pharmaceuticals. (30 Marks)
 - 5.2 Explain the benefits of using barcode for pharmaceuticals label preparation. (40 Marks)
- 6.
- 6.1 Explain the factors that influence the dose of a drug. (80 Marks)
 - 6.2 Calculate the dose for 10 years old child for a drug "x". The adult dose of drug "x" is 20 mgKg^{-1} . (20 Marks)
- 7.
- 7.1 A patient is prescribed with betamethasone metered dose inhaler (MDI) 200 micro gram bd. The MDI contains 200 puff of the strength of 200 micro gram / puff. How long the inhaler would used. (15 Marks)
 - 7.2 In an ointment, 2g of salicylic acid is incorporated in 500g base. Another 250g of base is added to this ointment. Find the concentration of the diluted ointment as a percentage strength, ratio strength and amount strength in mg/g. (30 Marks)
 - 7.3 Find the concentration of dextrose required to make a 0.12 % solution of sodium chloride iso-osmotic with plasma. The molecular weight of dextrose (anhydrous) is 180. (30 Marks)
 - 7.4 Find the strength of alcohol BP in terms of proof spirit. (25 Marks)
8. Write short note on
- 8.1 pricing of prescription. (35 Marks)
 - 8.2 industrial methylated spirit (IMS). (35 Marks)
 - 8.3 stability testing of pharmaceuticals. (30 Marks)