

UNIVERSITY OF JAFFNA, SRI LANKA
BACHELOR OF PHARMACY
SECOND YEAR FIRST SEMESTER EXAMINATION IN BpharmHonours 2021
PHACE 2113 PHARMACEUTICS I

PAPER II

Date: 23.01.2023

Time: 02 hours

Answer all Question

1. Compare the following dosage forms:
 - 1.1 Tablet and capsule (20 Marks)
 - 1.2 Emulsion and suspension. (20 Marks)
 - 1.3 Eye drop and ear drop. (20 Marks)
 - 1.4 Individual powder and bulk powder. (20 Marks)
 - 1.5 Cream and ointment. (20 Marks)

2. Describe the preparations of the following:
 - 2.1 Give the formula for 500 mL of an intravenous solution containing 2% of anhydrous dextrose and 0.5% of potassium chloride and made iso-osmotic with blood plasma. The molecular weight of dextrose, KCl and NaCl is 180, 74.5 and 58.5 respectively (25 Marks)
 - 2.2 what weight of malachite green oxalate is required to produce 500 mL of solution such that 25 mL of this solution diluted to 4000 L gives a 1 in 2 000 000 solutions (20 Marks)
 - 2.3 Prepare 250 ml of proof spirit from ethanol BP. (15 Marks)
 - 2.4 Calculate the percentage of NaCl needed to make an injection containing morphine sulfate 1 %, hyoscine hydrobromide 0.04%, and sodium meta bisulfate 0.1 % iso-osmotic with blood plasma. The freezing point depression of a 1% w/v solution of hyoscine hydrobromide, morphine sulfate, sodium meta bisulfate and sodium chloride are 0.122° C, 0.09° C, 0.08° C and 0.576° C (30 Marks) respectively

2.5 One cream contains 15% ZnO and another cream contains 5% ZnO. How would you prepare 100 g of ZnO cream from the above 2 creams? (10 Marks)

3. Explain the

3.1 parts of the prescription. (60 Marks)

3.2 importance of the date of the prescription. (20 Marks)

3.3 Over the counter drug (20 Marks)

4. Write short notes on:

4.1 Industrial Methylated Spirits (IMS). (30 Marks)

4.2 Solutions: (30 Marks)

4.3 Briefly explain the factors which affect the dose (40 Marks)

Allied Health Sciences