

UNIVERSITY OF JAFFNA, SRI LANKA
BACHELOR OF PHARMACY
SECOND YEAR FIRST SEMESTER EXAMINATION IN BPharmHons 2020
PHACE 2113 PHARMACEUTICS I

Date: 07 JUN 2022

Time: 2 Hours

Answer all Four (04) questions.

1. Compare the following dosage forms:
 - 1.1 Tablet and capsule (20 Marks)
 - 1.2 Lotion and liniment. (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 Six (06) drug powders packets and each containing 6 microgram (μg). (30 Marks)
 - 2.2 Find the amount of sodium chloride to be included in 500 mL of a 0.2 % solution of zinc sulphate so that, on dilution with an equal quantity of water, it will be iso-osmotic with tissue fluids. (30 Marks)

Freezing point of 1% w/v solution of zinc sulphate and 1% solution of sodium chloride is -0.086°C and -0.576°C respectively.
 - 2.3 Prepare five hundred milliliter (500 ml) of 27.38 OP (over proof) from ethanol BP. (20 Marks)
 - 2.4 100 g of powder containing 4% of active ingredient (AI) are to be made from powder containing 10% of AI and powder containing 2% of AI. Calculate the amount of powder of each ? (20 Marks)

3. 3.1 Define the terms: ()
 - 3.1.1 Prescription refill. (5 Marks)
 - 3.1.2 Prescription blank. (5 Marks)

3.2 Explain the

3.2.1 parts of the prescription.

(60 Marks)

3.2.2 responsibilities of pharmacists when receiving a prescription.

(30 Marks)

4. Write short notes on:

4.1 legal requirement of dispensed medicine.

(30 Marks)

4.2 solutions:

(40 Marks)

4.3 briefly explain how does age affect the **dose**

(30 Marks)