(100 marks)



Faculty of Health Sciences Diploma in Pharmaceutical & Cosmetic Sciences HD 1143 – Introduction to Pharmaceutical & Cosmeceutical Industry Batch – 02 - 1st year 1st semester - End Semester - SEQ Examination

Date

: 18th September 2023

Time

Question 01

: 9.00 am - 12.00 noon (Three hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of SIX questions.
- Answer ALL questions.
- Write the answers legibly in black or blue ink.

1.1	List 02 advantages of capsules as a dosage form.	(10 marks)
1.2	State 03 types of tablets and 02 types of capsules available.	(20 marks)
1.3	Briefly describe how you would select an appropriate base for the of a semisolid dosage form.	preparation (30 marks)
1.4	Explain 02 methods used in semisolid dosage form manufacturing example per each.	giving 01 (40 marks)
Question 02		
Quest	ion 02	(100 marks)
2.1.1	What are non-medicated syrups? Give 01 example.	(100 marks) (10 marks)
		(10 marks)
2.1.1	What are non-medicated syrups? Give 01 example. Briefly explain the difference between monophasic and biphasic li	(10 marks) quid dosage

Questi	ion 03	(100 marks)
3.1	List 03 advantages of homeopathy.	(10 marks)
3.2	State the principle used in Biofeedback to treat and prevent disease	s. (20 marks)
3.3	Briefly describe how communication skills are important at workpl	ace. (30 marks)
3.4	Discuss "Personality development is important for one's cardevelopment related to occupation".	eer development / (40 marks)
Quest	ion 04	(100 marks)
4.1	What is an "inhaler"?	(10 marks)
4.2	Draw a diagram of a dry powder inhaler (DPI) and label the main p. Write 01 function for each part.	
4.3	What are the 04 techniques involved in manufacturing inhalers? Explain the procedure of "Pressure filling process".	(30 marks)
4.4	Justify: "Inhalers are the most suitable technique in delivering med to the respiratory system".	ications (35 marks)
Question 05		(100 marks)
5.1	state the 03 items regulated by National Medicines Regulatory Authority .	
5.2	State 04 functions of the National Medicines Quality Assurance Lab	(15 marks) coratory. (20 marks)
5.3	Briefly describe the main functions of the National Dangerous Dr	
5.4	Describe the 05 functions of National Medicines Regulatory Author	
Question 06		(100 marks)
6.4	What is an over-the-counter medicine (OTC)? State 05 common OTC medicines. Briefly describe the disadvantages of taking OTC medicines. State 02 common prescription only medicines. Briefly describe the reason for controlling drugs with a prescription	(10 marks) (20 marks) (30 marks) (10 marks) ?(30 marks)





Faculty of Health Sciences

Diploma in Pharmaceutical and Cosmene Sciences

HD 1163 - Pharmaceutical and Cosmeceutical Unit Operations

Batch - 02 - 1st year 1st semester - End Semester - Assignment

Date

20th September 2023

Time

1.30 pm - 2.30 pm (one hour)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of TWO questions.
- · Answer ALL questions.
- · You should write legibly in black or blue ink.
- You are not allowed to take out the examination papers.

Question 01

(100 marks)

1.1 You are provided with the ingredients necessary to prepare Dusting powder. The master formula is given below.

Mater Formula

Ingredients	Qunatities	
Purified talc	500 g	
Starch BP	250 g	
Zinc Oxide BP	250 g	

- 1.1.1. Calculate the quantities required to prepare 10g of Dusting powder. (20 marks)
- 1.1.2. Explain how dusting powder is prepared including the special techniques used when mixing. (30 marks)
- 1.2 A powder sample (20g) is provided to you. You are asked to find the flow properties of the powder. Bulk and tapped densities are one method of determining the flow properties of powders.
- 1.2.1 Briefly describe the steps to find bulk density.

(15 marks)

1.2.2 Briefly describe the steps to find tapped density.

(15 marks)

1.2.3 Write the formula for bulk density, tapped density and compressibility if m is the mass of powder, V_0 is the bulk volume, and V_f is the tapped volume. (20 marks)

Question 02 (100 marks)

2.1 You are provided with different powder samples that is used to manufacture tablets. The powder samples are of different sizes.

2.1.1 State how you will utilize the sieves in order to obtain powders of same size range.

(30 marks)

2.1.2 Why are sieves used in the pharmaceutical industry?

(20 marks)

2.2 You are provided with Sodium Hydroxide (2g). State how you will find whether the Sodium Hydroxide is hygroscopic. (30 marks)

2.3 Comment on the importance of flow properties and moisture content in pharmaceutical industry. (20 marks)



Faculty of Health Sciences Diploma in Pharmaceutical & Cosmetic Sciences

HD 1143 – Introduction to Pharmaceutical & Cosmeceutical Industry Batch – 02 - 1st year 1st semester - End Semester - Assignment

Date : 18th September 2023

Time : 1.30 pm - 2.30 pm (Two hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of TWO questions.
- · Answer ALL questions.
- · You should write legibly in black or blue ink.
- You are not allowed to take out the examination papers.

Question 01 (100 marks)

1.1. State the dosage form of the preparations below.

(10 marks)

- 1.1.1 Elixirs
- 1.1.2 Lotions
- 1.1.3 Eye drops
- 1.1.4 Pastes
- 1.2. Give one advantage per each of the above dosage forms.

(20 marks)

1.3. The ingredients required to prepare Lassar's paste are given below.

Ingredients	Quantities
Zinc oxide	240 g
Salicylic acid	20 g
Starch	240 g
White soft paraffin	500 g

1.3.1 Write how you would prepare a paste.

(25 marks)

1.3.2 Show related calculations to prepare 50g of Lassar's paste.

(25 marks)

1.4 Lassar's paste is a highly thick preparation. State why it is more thick than other preparations of the same dosage form (20 marks)

Question 02 (100 marks)

- 2.1 Justify: "Liquid dosage forms are more ideal for many situations than other types of dosage forms" (70 marks)
- 2.2 Explain an example scenario where the above statement holds true. (30 marks)