BACHELOR OF PHARMACT EXAMINATION, 2023

(3r Year, 1st Semester, Supplementary)

INDDUSTRIAL PHARMACY - I

Time: Three hours Full Marks: 75

Note: 1. Answer ALL the questions.
2. Question 1 is Compulsory.

1. Answer the following questions.

10x2 Marks=20 Marks

- a. Define preformulation.
- b. Explain bulk and tapped density.
- c. Define dissolution.
- d. Give two examples of primary surfactant usef in shampoo.
- e. What is buccal tablets?
- f. Define propellant.
- g. What is the chemical formula of propellant 11?
- h. Give the definition of parenteral.
- i. Give two examples of antioxidants.
- j. Give two examples of tonicity modifiers.

Long Answer Questions

 $2 \times 10 \text{ Marks} = 20 \text{ Marks}$

(Answer 2 out of 3)

- 2. a). Write about the processing problems in tablet compression. 10
- 3. a). Define shampoo. 2
- b). Write the ingredients used to prepare shampoo with their functions.
- 4. a) Describe in detail about flash point, therapeutic, and toxic effect determination o aerosol.

[Turn over

b). What are the limitations of parenteral products?	[7+3]
Short Answer Question 7 x 5 Marks = 35 Marks	
(Answer 7 out of 9)	
5. Classify cosmetics with examples.	5
6. Classify tablets with examples.	5
7. Write in short about the diluents useb in tablet formulation.	5
8. Differentiate cold cream and vanishing cream.	5
9. a) Describe the advantages of parenteral products.	2
b) State different types of parenteral products.	3
10. a) Name some factors that can affect drug absorption from different dosage for than IV route.	forms other
b) After absorption, state the factors that affect the therapeutic effect of the drug.	3
11. Discuss in details about water for injection and sterile water for injection.	5
12. a) What are the different types of aerosol system?	2
b) Explain the working of bag in can system product.	3
13. Explain any one of the evaluation techniques used for capsule preparation.	5