

B.Pharm/ 3rd year/ 5th Sem/Time 3 hrs/ FM 75/ 2022-23

Course: Industrial Pharmacy-I

Code: BP502T

Note: 1. Answer ALL the questions.

2. Question 1 is Compulsory.

1. Answer the following questions.

10x2M=20 Marks

- a. Define intrinsic solubility with its significance.
- b. Give the specifications for tablets friability test.
- c. Explain the role of stearic acid in vanishing cream.
- d. Give the formula for Carr's compressibility index. What does it indicate?
- e. Give the composition of tooth paste.
- f. Define work of propellant.
- g. What is the chemical formula of propellant propellant 114?
- h. Give definition of aerosol.
- i. Give two examples of hydrocarbon propellant.
- j. Give two examples of CFCs propellant.

Long Answer Questions

2 x 10Marks = 20Marks

(Answer 2 out of 3)

2. a). Define preformulation studies.
- b). Describe in short the physical parameters to be studied in preformulation phase. 2+8=10
3. a). Explain details the wet granulation technique for tablet manufacturing.
- b). Define "slug". 9+1=10
4. a) Describe in details about Tinplate container for aerosol packaging.

b). What are the components of aerosol package?

[7+3]

Short Answer Question

7 x 5 Marks = 35 Marks

(Answer 7 out of 9)

5. a) Give a note on instability of emulsion. 4
b) Give the formula for sedimentation rate. 1
6. a) Explain the purpose of enteric coating. 4
b) Give two example of enteric polymer. 1
7. a) Define soft drug. 1
b) Explain the role of salt form of drugs in optimization of active molecular entity at preformulation stage. 4
8. a) Amorphous and crystalline form of drug-----which one is more soluble and why? Explain with example.. 3
b) Define hydrotrophy. 2
9. a) Define sterile products. 2
b) State different routes for parenteral preparation 3
10. a) Name some factors that can affect drug absorption from different dosage forms other than IV route. 2
b) After absorption, state the factors that affect therapeutic effect of 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 evaluation techniques used for parenteral product. 5