

**FACULTY OF PHARMACY**  
**B. Pharmacy V - Semester (PCI) (Main & Backlog) Examination, March 2024**  
**Subject: Industrial Pharmacy-I**

**Time: 3 Hours**

**Max.Marks:75**

**PART - A**

**Note: Answer all the questions.**

**(10 x 2 = 20 Marks)**

1. What is Racemization? Give example.
2. Write the methods of study of solid forms of a substance.
3. What are the tests used for detecting type of emulsion.
4. Write the advantages of pellets.
5. What is isotonicity? Explain its importance for parenteral products.
6. Write the principle involved in LAL test for injectables?
7. What is orange peel effect in tablets coating?
8. Define propellants.
9. Define pharmagel A and pharmagel B?
10. What are pyrogens?

**PART - B**

**Note: Answer any two questions.**

**(2 x 10 = 20 Marks)**

11. Enlist the excipients used in tablet manufacture with examples. Write their role and mechanism of action.
12. Explain formulation and the production of parenterals.
13. Explain the formulation and evaluation of aerosols.

**PART - C**

**Note: Answer any seven questions.**

**(7 x 5 = 35 Marks)**

14. How flow properties of powders are measured.
15. What is partition coefficient? Write the significance of it.
16. Write a brief note on manufacturing defects in tablet coating.
17. Explain the techniques for solubilization of API.
18. Explain weight variation test and content uniformity test for capsules.
19. Write the differences between flocculated and deflocculated suspensions.
20. Write note on sterile powders.
21. Discuss the manufacturing and uses of cold cream and vanishing cream.
22. Explain the factors affecting selection of pharmaceutical packing materials.

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