

**QP CODE: 307008**

**Reg. No.....**

**Third B. Pharm (Ayurveda) Degree Supplementary Examinations  
September 2022  
Industrial Pharmacy I**

**Time: 3 Hours**

**Total Marks: 100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers.*

**Essays:** (2x10=20)

1. Explain the physics of tablet manufacturing in tablet compression machine.
2. Enlist the types of additives used in liquid dosage form and highlights its importance in the formulation.

**Short notes:** (10x5=50)

3. Explain in short about the in process quality control of tablets.
4. Discuss the special care and problems in the manufacturing of granules.
5. Enlist the ideal properties of a film coating material.
6. Demonstrate how materials are filled in capsule.
7. Explain the packaging of clear liquids and draw a neat label for the liquid formulation.
8. What are the various factors affects the penetration of semisolid dosage form.
9. Explain tincture. Give a detailed methodology for the preparation of a tincture preparation.
10. Give an account on flammability and combustibility in the pharmaceutical aerosols.
11. How microcapsules are coated by spray drying and spray congealing technique.
12. Why preservatives are included in the formulation and mention its importance.

**Answer briefly:** (10x3=30)

13. Give the reason for the micro-encapsulation.
14. Outline the pharmaceutical applications of aerosols.
15. Explain soft liquid extraction and give two examples.
16. Classification of semisolid bases.
17. Make a comparison between soft gelatin capsule and hard gelatin capsule.
18. Differentiate creaming and cracking
19. What are diffusible solid give two examples.
20. List out the steps involved in the sugar coating.
21. Define the term bulk density and true density.
22. Enlist the advantage and limitation of powders.

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