

**B PHARM
(SEM V) THEORY EXAMINATION 2022-23
INDUSTRIAL PHARMACY-I**

*Time: 3 Hours**Total Marks: 75*

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

- 1. Attempt all questions in brief. 10 x 2 = 20**
- a. Distinguish drugs on the basis of BCS classification.
 - b. Classify tablets based on route of administration.
 - c. Enlist various steps involved in pelletization process.
 - d. Determine the base adsorption and minim per gram factor in capsules.
 - e. Classify propellants used in aerosols.
 - f. Explain significance of isotonicity in ophthalmic preparations.
 - g. Enlist the methods used for preparing soft gelatin capsule.
 - h. Classify all types of glass used in pharmaceutical packaging.
 - i. Define preformulation studies.
 - j. Define SPF.

SECTION B

- 2. Attempt any two parts of the following: 2 x 10 = 20**
- a. Analyze the processing problems encountered during manufacturing of coated tablets and suggest remedies to resolve the same.
 - b. Explain the preparation of dry powder by lyophilisation. Evaluate quality control tests for parenterals.
 - c. Describe the basic components of a valve and aerosol container and broadly cite their importance.

SECTION C

- 3. Attempt any five parts of the following: 5 x 7 = 35**
- a. Estimate various quality control tests for aerosols.
 - b. Illustrate the application of preformulation studies in development of new chemical compound.
 - c. Depict the manufacturing of hard gelatin capsules.
 - d. Illustrate the production facilities and various control for manufacturing of parenteral dosage forms.
 - e. Predict the legal and official requirements for packaging materials.
 - f. Investigate the processing problem encountered during liquid preparation.
 - g. Discuss different granulation method.