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

**Time: 3 Hours****Total Marks: 75****Note:** Attempt all Sections. If require any missing data; then choose suitably.

**SECTION A**

**1. Attempt all questions in brief.****10 x 2 = 20**

- (a) What are hydrates and solvates give examples?
- (b) Define pyrogens?
- (c) What is the role of viscosity modifiers in ophthalmic?
- (d) Classify the propellants with suitable examples?
- (e) What is intrinsic solubility of drugs?
- (f) What is the method of sterilization for ophthalmic dosage forms.
- (g) What is the advantage of pull sealing over tip sealing of ampoules.
- (h) What are super disintegrants and give two examples.
- (i) Write on different sizes of hard gelatin capsules
- (j) What is "bloom strength" of gelatin.

**SECTION B**

**2. Attempt any two parts of the following:****2 x 10 = 20**

- (a) Classify granulation techniques. Discuss the wet granulation method along with their limitations.
- (b) Explain importance of solubility, dissociation constant and partition co-efficient of drug in development of solid dosage forms.
- (c) What are the different parts of aerosol? Describe the stability testing methods for pharmaceutical aerosol.

**SECTION C**

**3. Attempt any five parts of the following:****7 x 5 = 35**

- (a) Describe quality control tests for the parenteral dosage forms.
- (b) Give a detailed account of the different excipients and their functions used in the tablets.
- (c) Define cream. Write the methods used for the formation of creams.
- (d) Emphasize on different stages involved in sugar coating of a compressed tablets.
- (e) Explain the rotary die process for manufacturing of soft gelatin capsules.
- (f) Explain the challenges faced in the development of oral suspension.
- (g) Discuss the merits and demerits of glass as a packaging material for parenteral.