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**B PHARM**  
**(SEM V) THEORY EXAMINATION 2018-19**  
**PHARMACEUTICS-VI (PHARMACEUTICAL TECHNOLOGY-I)**

*Time: 3 Hours*

*Total Marks: 100*

- Note:** 1. *Attempt all Sections.*  
2. *Answer should be precise*

**SECTION A**

1. **Attempt all questions in brief.** **2 x 10 = 20**
- a. Name the different components of aerosol valve assembly
  - b. What are the objectives of preformulation research?
  - c. What is the principle of LAL test for detecting pyrogens?
  - d. Write about the general requirements of parenterals.
  - e. Define the term 'Sterile Water for Injection'.
  - f. What is the composition of compound powder of tragacanth?
  - g. Define the term veterinary dosage form with suitable examples
  - h. Define in-situ gels.
  - i. What is the importance of sedimentation volume in suspension?
  - j. What are the advantages of liquid suppositories?

**SECTION B**

2. **Attempt any *three* of the following:** **10 x 3 = 30**
- a. Elaborate on the ICH guidelines for stability testing of pharmaceutical products.
  - b. What are the differences in the cold filling method and pressure filling method of manufacturing aerosols?
  - c. Write in detail about the prefilling treatment carried out during production of parenterals
  - d. What are the various skin permeation enhancement methods for semisolid dosage form?
  - e. What are the various ingredients added during formulation of suspensions?

**SECTION C**

3. **Attempt detailed note on any *one* part of the following:** **10 x 1 = 10**
- a. Dissolution as an important preformulation factor
  - b. Density as an important preformulation factor
4. **Attempt short note any *two* parts of the following:** **5 x 2 = 10**
- a. Differences between suspension and nanosuspensions
  - b. Differences between suspension & emulsion
  - c. Wet gum method of preparing emulsions
5. **Attempt any *one* part of the following:** **10 x 1 = 10**
- a. Elaborate on the manufacturing of suppositories on small & large scale.
  - b. What are the various dermatological factors affecting selection of ointment bases?

6. Attempt any *one* part of the following:

10 x 1 = 10

- a. What are the various methods to carry out *in-vitro* methods of evaluation of parenterals?
- b. What are various ophthalmic products? What are the essential characteristics of different ophthalmic products?

7. Attempt short note on any *two* part of the following:

5 x 2 = 10

- a. Regulatory requirements for approval of animal drugs.
- b. Use of Implants as Veterinary Dosage form.
- c. Pharmaceutical Applications of aerosols