

B. PHARM
(SEM-V) THEORY EXAMINATION 2019-20
PHARMACEUTICS-VI (PHARMACEUTICAL TECHNOLOGY-I)

Time: 3 Hours**Total Marks: 70**

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

SECTION A

1. Attempt *all* questions in brief. 2 x 7 = 14
- a. What is the significance of Preformulation?
 - b. What is dielectric Constant?
 - c. Mentioned the applications of Pharmaceutical Emulsion.
 - d. What are the advantages of *in-situ* gels?
 - e. What is isotonic solution?
 - f. Mention the source of pyrogen.
 - g. What are the disadvantages of pharmaceutical aerosols?

SECTION B

2. Attempt any *three* of the following: 7 x 3 = 21
- a. Elaborate the physical properties for Preformulation studies.
 - b. Describe in details additives used in Pharmaceutical Suspension.
 - c. Explain various suppository bases with suitable examples.
 - d. Write in detail additives used in preparations injections.
 - e. Mention the regulatory requirement for veterinary dosage forms.

SECTION C

3. Attempt any *one* part of the following: 7 x 1 = 7
- (a) Describe the stability studies of solid particles.
 - (b) Discuss the quantitative estimation of solubility of a drug in solvent.
4. Attempt any *one* part of the following: 7 x 1 = 7
- (a) Illustrate the additives used for preparation of emulsion.
 - (b) Give the applications & benefits of nanoemulsion& nanosuspension.
5. Attempt any *one* part of the following: 7 x 1 = 7
- (a) Describe various manufacturing methods for suppositories
 - (b) Elaborate various evaluation parameters for Ointments.
6. Attempt any *one* part of the following: 7 x 1 = 7
- (a) Write in details about formulation of ophthalmic solution.
 - (b) Give a detailed note on *invitro* methods for evaluation of injections.
7. Attempt any *one* part of the following: 7 x 1 = 7
- (a) Elaborate various dosage forms used for animals.
 - (b) Write in details various packing material used for manufacturing of aerosols.