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**B.PHARM**  
**(SEM VI) THEORY EXAMINATION 2017-18**  
**PHARMACEUTICS – VII**  
**(PHARMACEUTICAL TECHNOLOGY-II)**

**Time: 3 Hours****Total Marks: 100****Note: 1.** Attempt all Sections.**SECTION A****1. Attempt all questions in brief. 2 x10 = 20**

- (a) What is burst release?
- (b) What are the disadvantages of controlled release dosages forms over conventional dosages forms?
- (c) Define capping and lamination in tablet making.
- (d) Enlist four evaluation parameters of capsules.
- (e) Give two example of enteric and non-enteric coating polymer each.
- (f) What do you mean by minimum/gm factors in soft capsule?
- (g) Define the term lyophilization.
- (h) Give two examples of biodegradable polymers.
- (i) What do you mean by sustained release tablets?
- (j) Define base absorption.

**SECTION B****2. Attempt any three of the following: 10 x 3 = 30**

- (a) Write a short note on filling sealing of ampoules.
- (b) Describe the one coating process of tablet giving silent details.
- (c) What is the principle of the working of an elementary osmotic pump?
- (d) Give advantages and disadvantages of capsule dosages forms.
- (e) Define sterile powders. Explain its preparation methods.

**SECTION C****3. Attempt any two of the following: 5 x 2 = 10**

- (a) Discuss evaluation of tablets.
- (b) Write a short note on wet granulation technology on large scale.
- (c) Briefly discuss physics of tablet making.

**4. Attempt any *one* part of the following: 10 x 1 = 10**

- (a) How pharmacokinetic and pharmacodynamic characteristics of a drug affect in the design of controlled release drug delivery system?
- (b) Briefly discuss oral controlled release systems.

**5. Attempt any *one* part of the following: 10 x 1 = 10**

- (a) Briefly discuss evaluation of the packaging materials.
- (b) What will be the criteria for the selection containers and closures?

**6. Attempt any *one* part of the following: 10 x 1 = 10**

- (a) Which aqueous and non aqueous vehicles are used in parental formulations? Give formulations detail.
- (b) Discuss prefilling treatment and washing of containers and closures.

**7. Attempt any *two* parts of the following: 5 x 2 = 10**

- (a) Discuss method of manufacturing of soft gelatin capsules.
- (b) Discuss the process of microencapsulation by spray drying method.
- (c) Write a short note on stability testing and storage of capsule dosage forms.