

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.