

B PHARM
(SEM VI) THEORY EXAMINATION 2017-18
PHARMACEUTICAL TECHNOLOGY-II

*Time: 3 Hours**Total Marks: 100***Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

- 1. Attempt all questions in brief. 2 x 10 = 20**
- a. Define Pharmaceutical polymers.
 - b. Write down the name of any two biodegradable polymers.
 - c. Give any four examples of tablet diluents.
 - d. What is the role of wetting agent in tablets.
 - e. Define Bloom Strength.
 - f. What is base adsorption value?
 - g. What is the difference between sustained release and delayed release?
 - h. What is the size range of microparticles and nanoparticles?
 - i. What do you mean by dose dumping?
 - j. What do you mean by temper proof packing?

SECTION B

- 2. Attempt any three of the following: 10 x 3 = 30**
- a. Mention the classification of polymers with suitable examples.
 - b. Discuss evaluation of tablets in detail.
 - c. Discuss basic mechanisms of sustained release.
 - d. Define micro-particles. Discuss the Coaservation phase separation method for manufacturing of micro-particles.
 - e. Describe Evaluation of packaging material in detail.

SECTION C

- 3. Attempt any two parts of the following: 5 x 2 = 10**
- (a) Mention synonyms, storage conditions and uses of Poloxamers.
 - (b) Write a note on HPMC.
 - (c) Discuss the pharmaceutical applications of Microcrystalline cellulose.
- 4. Attempt any one part of the following: 10 x 1 = 10**
- (a) Discuss wet granulation process in detail.
 - (b) Mention the reasons and remedies for various tablet defects encountered during tablet compression.
- 5. Attempt any two parts of the following: 5 x 2 = 10**
- (a) What are the advantages and disadvantages of capsule dosage form?
 - (b) Discuss various steps for filling hard gelatin capsule.
 - (c) Describe stability testing of capsules.
- 6. Attempt any one part of the following: 10 x 1 = 10**
- (a) Write a short note on Liposomes.
 - (b) Discuss about solid lipid nanoparticles.
- 7. Attempt any one part of the following: 10 x 1 = 10**
- (a) Discuss evaluation of Nanoparticles.
 - (b) What are the various methods for preparation of nanoparticles? Describe any one method in detail.