

B PHARM
(SEM VI) THEORY EXAMINATION 2018-19
PHARMACEUTICS-VIII (PHARMACEUTICAL TECHNOLOGY-II)

Time: 3 Hours**Total Marks: 100****Note: 1.** Attempt all Sections.**SECTION A**

- 1. Attempt all questions in brief. 2 x 10 = 20**
- a. What do you mean by METHOCEL E 4 M P?
 - b. Name two polymers each used for enteric coating and film coating.
 - c. Differentiate between sugar coating & film coating.
 - d. What is Fette machine?
 - e. What are the major differences in the composition of soft gelatin capsule and hard gelatin capsule?
 - f. Emulsions cannot be filled in the soft gelatin capsules. Why?
 - g. Differentiate between sustained & controlled release formulations.
 - h. Define implants.
 - i. Differentiate between Nanocapsule and Nanospheres.
 - j. What are the functions of packaging?

SECTION B

- 2. Attempt any three of the following: 10 x 3 = 30**
- a. Write the synonyms and pharmaceutical applications of HPMC & Polyvinyl pyrrolidone.
 - b. Explain the compression cycle for multi-station rotary presses.
 - c. Write the method of preparation of hard gelatin capsule shell. Enlist the methods of capsule filling and describe in brief any one method.
 - d. Give a detailed account on the basic mechanism/approaches of sustained and controlled release with their advantages.
 - e. Discuss the methods of preparation and evaluation of nanoparticles.

SECTION C

- 3. Attempt any one part of the following: 10 x 1 = 10**
- (a) What are polymers? Give a detailed account on classification of polymers.
 - (b) Write synonyms, storage and pharmaceutical applications of Chitosan and Cyclodextrin.
- 4. Attempt any one part of the following: 10 x 1 = 10**
- (a) What are the importance of weight variation & content uniformity in tablet? Explain in detail with their limit.
 - (b) What are tablet processing problems and their remedies?
- 5. Attempt any one part of the following: 10 x 1 = 10**
- (a) What are the applications of minim/gm and base absorption in case of soft gelatin capsules? Write the procedure of base absorption determination.
 - (b) Write the evaluation test for Capsule with their limits.
- 6. Attempt any one part of the following: 10 x 1 = 10**
- (a) Write the definition, advantages and limitations of resealed erythrocytes and transdermal patches.
 - (b) What do you mean by micro-encapsulation? Describe evaluation parameters for microparticles.
- 7. Attempt any one part of the following: 10 x 1 = 10**
- (a) What is dissolution? Write a note on release kinetics of Nanoparticles.
 - (b) Explain the factors affecting choice of containers. Write the evaluation test for glass container.