Printed Pages: 01
Paper Id: 1 5 0 6 0 2

Sub Code: BOP362
Roll No.

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 x10 = 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.