

**T.Y.B.PHARM. SEMESTER-V (2011 COURSE) : WINTER -
2017**

SUBJECT : DOSAGE FORM DESIGN – II

Day : **Tuesday**
Date : **14/11/2017**

Time : **10.00 AM TO 01.00 PM**
Max. Marks : **80**

W-2017-3832

N.B.:

- 1) **Q.NO.1 and Q.No.5 are COMPULSORY.** Out of the remaining questions attempt **ANY TWO** questions from each section.
- 2) Answers to both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the right indicate **FULL** marks.
- 4) Draw neat and labeled diagrams **WHEREVER** necessary.

SECTION – I

- Q.1** Answer **ANY FIVE** of the following: [10]
- a) Mention the desirable features of a capsule dosage form.
 - b) Mention the various examples of preservatives used in semisolids.
 - c) Which type of material cannot be filled in Hard Gelatin capsule?
 - d) What are characteristics for penetration enhancer?
 - e) Give the schematic presentation of commercially manufacturing of gelatin.
 - f) Mention the classification of gels.
 - g) What are advantages and limitations of soft gelatin capsules?
- Q.2** a) Discuss in detail manufacturing and processing equipments used in soft gelatin capsule. [10]
b) Discuss ointment bases. [05]
- Q.3** a) Discuss various factors affecting permeation of drug through the skin. [08]
b) Discuss in detail finished product testing of capsule. [07]
- Q.4** Write short notes on **ANY THREE** of the following: [15]
- a) Formulation of semisolids
 - b) Manufacturing of cream
 - c) Industrial filling of capsule
 - d) Percutaneous absorption of drug

SECTION – II

- Q.5** Answer **ANY FIVE** of the following: [10]
- a) What are different stages involved in formation of granule?
 - b) Give the systematic approach to design a tablet dosage form.
 - c) Mention the advantages and limitations of tablet coatings.
 - d) What are glidants? Give examples.
 - e) Give the objectives of therapeutic aerosols.
 - f) What you mean by capping and mottling of tablets?
 - g) What is enteric coating? Mention different polymers used in it.
- Q.6** a) Discuss in detail formulation of tablets. [10]
b) Explain evaluation of granules. [05]
- Q.7** a) Discuss in detail about effervescent tablets. [08]
b) Discuss the problems in tablet coating and remedies thereof. [07]
- Q.8** Write short notes on **ANY THREE** of the following: [15]
- a) Components of Aerosol device
 - b) Mouth dissolving tablets
 - c) Evaluation of tablets
 - d) Coating equipments