

Day : Saturday
Date : 17/11/2018

W-2018-4129

Time : 10.00 A.M. TO 01.00 P.M.
Max. Marks : 80

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 the **SEPARATE** answer books.
- 3) Figures to the right indicate **FULL** marks.

SECTION – I

- Q.1** A) Answer **ANY FIVE** of the following: [10]
i) Define and classify gels.
ii) What is filled volume of capsule?
iii) What is the difference between gels and jellies?
iv) What acts as a plasticizer for gelatin film?
v) Name the excipients commonly used for making capsule dosage form.
vi) Explain true or false: White soft paraffin is a choice of base for eye ointment.
- Q.2** a) Describe the process of encapsulating the fill material into soft gelatin shell. [08]
b) Discuss various methods for the preparation of semisolid dosage form with a suitable example of each method. [07]
- Q.3** a) Explain the concept of percutaneous absorption and various factors affecting it. [08]
b) What are soft gelatin capsules? Discuss in detail the manufacturing process for soft gelatin capsule. [07]
- Q.4** Write short notes on **ANY THREE** of the following: [15]
a) Ointment bases
b) Raw material for hard gelatin capsule shell
c) Packaging of semisolids
d) Hand operated capsule filling machine

SECTION – II

- Q.5** A) Answer **ANY FIVE** of the following: [10]
i) Give the applications of dry powder inhalers
ii) What are the materials used to improve the flow properties of granules?
iii) Mention the reasons for coating of tablets.
iv) Explain organoleptic additives used in tablets.
v) Enlist the methods used for the determination of particle size.
vi) Give difference between sugar coating and film coating.
- Q.6** a) Discuss in detail problems encountered in tablet coating along with their remedies. [08]
b) Discuss dry granulation process. [07]
- Q.7** a) Discuss container and valve system of metered dose inhalers in details. [08]
b) Discuss in details about layered tablets. [07]
- Q.8** Write short notes on **ANY THREE** of the following: [15]
a) Equipments used for the mixing of powders
b) Directly compressible additives
c) Chewable tablets
d) Evaluation of tablets