

**T.Y.B.PHARM. SEMESTER-VI (CBCS - 2015 Course) : SUMMER -
2019**

SUBJECT : PHARMACEUTICAL TECHNOLOGY – II

Day : Tuesday
Date : 30/04/2019

S-2019-4402

Time : 10.00 A.M. TO 01.00 P.M.
Max. Marks : 60

N.B. :

- 1) Question No.1 and 5 are **COMPULSORY** out of remaining questions solve **ANY TWO** from **Each** section.
- 2) Figures to the right indicate **FULL** marks.
- 3) Both the section should be written in **SEPARATE** answer book.

SECTION - I

- Q.1** Answer **ANY FIVE** of the following: (10)
- a) What is effect of height-to-diameter ratio of tablet on compression and ejection cycle of tableting?
 - b) What are the required characteristics for reconstituted suspensions?
 - c) Write significance of hardness and friability test for tablets.
 - d) Give the size classification of powders.
 - e) Write difference between powders and granules.
 - f) What are the different techniques used for dry blending of powders.
- Q.2** a) Discuss in detail evaluation of suppositories. (07)
b) Comment on sluggers or roller compactors. (03)
- Q.3** a) Discuss layout of tablet manufacturing facility. (07)
b) An active pharmaceutical ingredient (API) with oral dose of 10 mg and log P 2 undergoes rapid hydrolysis in acidic medium up to pH 3. Suggest and justify various types of most suitable tablets for this API. (03)
- Q.4** Write short note **ANY TWO** of the following: (10)
- a) Lozenges
 - b) Factors affecting granulation process
 - c) Compression coating

SECTION – II

- Q.5** Answer **ANY FIVE** of the following: (10)
- a) Why gelatin is the major component of the capsule shell?
 - b) Write different reason for coating of tablets.
 - c) What are advantages of synthetic hard fat suppositories base.
 - d) Write test for weight variation for tablets as per I.P.
 - e) What are primary, secondary and tertiary packaging materials?
 - f) Write significance of isoelectric point of gelatin.
- Q.6** a) Write various formulation factors that affect capsule filling and drug availability from the filled capsules. (07)
b) Explain orange peel effect of film coated tablets. (03)
- Q.7** a) Discuss IPQC test for tablets. (07)
b) Write importance of bloom strength and viscosity of gelatin employed for manufacturing of capsule shells. (03)
- Q.8** Write short note **ANY TWO** of the following: (10)
- a) Manufacturing process for gelatin as a raw material.
 - b) Manufacturing of soft gelatin capsules.
 - c) Quality of Air for pharma manufacturing facility.

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