



**PBC-014-003701** Seat No. \_\_\_\_\_

**M. P. M. (Sem. VII) (CBCS) Examination**

**November / December - 2018**

**Pharmaceutical Technology - I**

**Faculty Code : 014**

**Subject Code : 003701**

**Time : 3 Hours]**

**[Total Marks : 80**

- Instructions :** (1) Answer and tie both the sections separately.  
(2) Figure to the right indicates marks.  
(3) Answer any three (3) questions from each section.  
(4) Que. One (1) & Que. Five (5) are compulsory.  
(5) Draw neat and clean diagrams as required.

**SECTION - I**

- 1 Answer Any **Seven** out of given Ten questions : **14**
- (a) Define superdisintegrant and give examples of it.
  - (b) Give the name of various Hardness testers.
  - (c) Differentiate flocculated and deflocculated suspension.
  - (d) Enumerates the various types of tablet tooling with its specifications.
  - (e) Enlist IPQC test for tablets with its Pharmacopeial Standards.
  - (f) What do you mean by Cold Extrusion and Hot Extrusion?
  - (g) What do you mean by Emulsifiers and give examples of it.
  - (h) Give the composition of Sugar Tab and Nu Tab
  - (i) Explain Tablet coating Defects.
  - (j) Enumerates Uses of MCC in Pelletization Process.

- 2** Answer the following :
- (a) Write a brief account on Tablet compression cycle. **7**
- (b) Enumerate the various techniques of pelletization process and explain in detail about powder layering. **6**
- 3** Answer the following :
- (a) Explain in detail about various stages in the development of granules in wet granulation method along with its flow chart. **7**
- (b) Define capsules with its advantages, Disadvantages and give difference between hard gelatin and Soft gealtin capsules. **6**
- 4** Answer the following :
- (a) Give the classification of Excipients used in tablet manufacturing and explain Disintegrating agent in detail with its mechanism **7**
- (b) Explain the process for manufacturing of Gelatin capsules shell. **6**

## SECTION - II

- 5** Answer An **Two** out of given Three questions : **14**
- (a) Write a brief note about defects in tablets along with causes and remedies.
- (b) Explain stability aspects of Suspension and Emulsion.
- (c) Explain various additives used for liquid dosage form.
- 6** Answer the following :
- (a) Define Microencapsulation, enumerates the various microencapsulation techniques and explain any one in detail. **7**
- (b) Explain equipments used for tablet coating. **6**

- 7** Answer the following :
- (a) Write a brief account on various packaging materials for pharmaceutical. **7**
  - (b) Define pellets along with its advantages, disadvantages and various factors affecting on pellet properties **6**
- 8** Answer the following :
- (a) Write a note on Micro Emulsion and Multiple Emulsion. **7**
  - (b) Enlist the various types of coating and explain in detail about Sugar coating process **6**
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