



HDU-014-003701

Seat No. \_\_\_\_\_

**Masters of Pharmacy Management  
(Sem. VII) (CBCS) Examination**

November / December – 2017

**Pharmaceutical Technology - I**

**Faculty Code : 014**

**Subject Code : 003701**

Time : 3 Hours]

[Total Marks : 80

- Instructions :**
- (1) Answer any three questions.
  - (2) Question no. 1 and Question no. 5 are compulsory.
  - (3) Figures to the right indicate marks.
  - (4) Draw neat and clean diagrams as required.

**SECTION - I**

**1** Answer any **seven** questions out of ten : **7×2=14**

- (1) Differentiate flocculated and deflocculated suspension.
- (2) Write the use of MCC in pelletization.
- (3) Differentiate hard gelatin and soft gelatin capsule.
- (4) Write down the excipient of pellet.
- (5) What is creaming? How can be it prevented?
- (6) Write the effect of ph on stability of emulsion.
- (7) What is orange peel effect ?
- (8) Write down the excipient used in enteric coating of tablet.
- (9) Write the role of plasticizer in capsule with example.
- (10) Give the composition of Sugar Tab and Nu Tab.

**2** Answer the following Questions :

- (1) Define tablets. Give their types. Explain methods of Wet granulation method with flow charts. **7**
- (2) Describe evaluation tests for suspension. **6**

- 3 Answer the following Questions :
- (1) Draw the compression cycle of a rotary tablet press with explanation. 7
  - (2) Discuss in detail about rotary die process of soft gelatin capsules with diagram. 6

- 4 Answer the following Questions :
- (1) Write down the test to identify type of emulsion and write down the factors affecting stability of emulsion. 7
  - (2) Enumerate the different type of coating and write a brief note on sugar coating. 6

## SECTION - II

- 5 Answer any **two** out of **three** : **2×7=14**
- (1) Explain the formulation and types of filling operation in hard gelatin capsules.
  - (2) Explain the evaluation parameter of tablet.
  - (3) Enumerate the various techniques of pelletization process and explain in detail about powder layering.

- 6 Answer the following Questions :
- (1) What is extrusion and pelletization and describe equipment used in this. 7
  - (2) Explain in detail about defects of tablets along with causes and corrective actions. 6

- 7 Answer the following Questions :
- (1) Write a note on emulsifiers. 7
  - (2) Write down the advantages and disadvantages of liquid dosage form and write a short note on elixirs and linctuses. 6

- 8 Answer the following Questions :
- (1) Discuss the criteria for selection of packaging materials. Classify the packaging materials. 7
  - (2) Write a note : glass and plastic as a packaging material. 6