



JAF-16120100701070100 Seat No. _____

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

November – 2019

Pharmaceutical Technology - I

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) and Que. Five (5) are compulsory.
5. Draw neat and clean diagrams as required.

SECTION - I

- 1 Answer the following questions : (any seven) 14
- 1) What are the uses of MCC in pelletization ?
 - 2) What is D tooling and B tooling ?
 - 3) Explain advantages of liquid dosage forms.
 - 4) Explain applications of extrusion in pharmacy.
 - 5) Define Pharmaceutical Packaging.
 - 6) Explain causes and remedies of orange peel effect.
 - 7) Give the meaning of Medication error.
 - 8) Enlist IPQC tests for tablets.
 - 9) Define and classify suspending agents.
 - 10) Define coprocess excipients with examples.
- 2 Answer the following :
- a) Explain quality control tests of hard and soft gelatin capsules. 7
 - b) Give the difference between wet granulation and dry granulation. 6

- 3 Answer the following :
- a) Write a note on various tablet defects related to excipients and machine. 7
 - b) Write a note on excipients and additives used in the capsule formulation. 6
- 4 Answer the following :
- a) Explain in detail the sugar coating process with necessary examples of excipients. 7
 - b) Enlist methods of preparation of microspheres. Explain any one in detail. 6

SECTION - II

- 5 Answer any **two** out of given **three** questions : 14
- a) Write a note on blister and strip package.
 - b) Discuss about direct compression. Enlist advantages and disadvantages of direct compression.
 - c) Explain factors affecting pellet properties.
- 6 Answer the following :
- a) Explain in detail about hot melt extrusion. 7
 - b) What is emulsifying agents ? Classify them and discuss in detail. 6
- 7 Answer the following :
- a) Write a note on glass used for packaging of pharmaceuticals with tests. 7
 - b) Explain types of additives used in liquid dosage forms. 6
- 8 Answer the following :
- a) Discuss about microemulsion and multiple emulsion. 7
 - b) Differentiate between primary and secondary packaging giving suitable examples. What is tamper-evident packaging ? 6