Roll No. | | | | | | | | | | | | |

Total No. of Pages : 01

Total No. of Questions : 06

M.Pharmacy (Pharmaceutical Quality Assurance) (2017 & Onwards)
(Sem.–2)

PHARMACEUTICAL MANUFACTURING TECHNOLOGY

Subject Code : MQA-204T

M.Code : 76353

Time : 3 Hrs. Max. Marks: 75

INSTRUCTIONS TO CANDIDATES :

1. **Attempt any FIVE questions out of SIX questions.**
2. **Each question carries FIFTEEN marks.**

1. A) Enlist the factors influencing storage of raw materials and finished products in a pharmaceutical plant. (7.5)

   B) Write a note on production scheduling. (7.5)

2. A) Write briefly about CIP and SIP with respect to parenteral manufacturing plant. (7.5)

   B) Discuss the area planning for a sterile product manufacturing pharmaceutical plant. (7.5)

3. A) Write a note on spheronization and its applications. (7.5)

   B) Give a schematic representation for manufacturing soft gelatin capsules. Describe the in-process quality control tests for this process. (7.5)

4. Write briefly about :

   A) Bubble packs (5)

   B) Plastic pouches (5)

   C) Glass containers and types (5)

5. What is meant by QbD? Mention its advantages and limitations. Discuss the process for applying QbD for designing drug products. (15)

6. What is PAT? Discuss the key features of PAT and its advantages. (15)

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.