

M.Pharm. Second Semester (Quality Assurance) (New)
35360 : Pharmaceutical Manufacturing Technology : MQA 204 T

P. Pages : 1

Time : Three Hours



AU - 0779

Max. Marks : 75

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- Notes :
1. All question carry equal marks.
 2. Answer **any five** question.
 3. Diagrams and chemical equations should be given wherever necessary.
 4. Use of pen Blue/Black ink/refill only for writing the answer book.

1. Discuss in detail about pelletization techniques & explain various equipments in detail. **15**
2. Explain in detail Principle, process & equipments involved in Lyophilization technique & add a note on its applications. **15**
3. Explain in detail about location, layout, personal flow & material flow in relation to sterile area. **15**
4. Write in detail about process automation in pharmaceutical industry with reference to tablet & coated products. **15**
5. Explain in detail about glass & plastic as a packaging material. **15**
6. Discuss in detail about fluidized bed coating & add a note on problems encountered in it. **15**
7. Write notes on **any two**. **15**
 - i) QbD for excipients.
 - ii) Farm fill seal technology.
 - iii) In process quality control tests for small & large volume parenterals.
