

QP CODE: 214335

Reg. No:.....

**Second Semester M. Pharm Degree Regular Examinations
November 2025
M.Pharm Pharmaceutical Quality Assurance
Pharmaceutical Manufacturing Technology (MQA 204T)
(2019 Scheme)**

Time: 3 Hours

Total Marks: 75

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essays

(3x10=30)

1. Explain the factors influencing plant layout and plant location in a pharmaceutical industry with suitable examples.
2. Describe the manufacturing process and in-process quality control tests for sterile ointments and emulsions.
3. Discuss the tablet granulation and pelletization techniques used in the pharmaceutical industry.

Short Notes

(9x5=45)

4. What are the different types of glass containers, and write any three quality control tests.
5. Explain the importance of Risk Assessment and mitigation/minimization of the QbD.
6. Describe the general principles of production planning.
7. What is Lyophilization. Explain its principle and applications in sterile products.
8. Write short notes on the fluidized bed coating process.
9. Write short notes on blister packs and strip packaging.
10. What is Process Analytical Technology (PAT) and its primary objective.
11. Explain the methods used for evaluating the stability of packaging materials.
12. Define the following terms: QTPP, CQA, CPP, and CMA, and write the key elements of each.
