

# Question Paper

Exam Date & Time: 18-May-2023 (02:00 PM - 05:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal College of Pharmaceutical Sciences, Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations. May-2023

Department of Pharmaceutical Quality Assurance

Sub code: PQA -MQA 204T

Sub title: Pharmaceutical Manufacturing Technology

### Pharmaceutical Manufacturing Technology [PQA-MQA204T -S2]

Marks: 75

Duration: 180 mins.

#### SECTION - A

Answer all the questions.

Answer the following (10 marks x 5 = 50 marks)

- 1) Kasturba Hospital, Manipal wants to start a sterile manufacturing unit for its captive use. Write a floor plan for the same with types of sterile area clearly marked. (10)
- 2) a. Enlist the problems encountered in tablet coating, mention the cause and write the remedies to avoid such problems (6 Marks) (10)  
b. Explain the principle involved in Spheronizers (4 Marks)
- 3) Mention various factors influencing plant location in the pharmaceutical industry and explain them in detail (10)
- 4) a. What are the QTPP elements for Loperamide HCl Tablets? (5 Marks) (10)  
b. Mention the Critical Processing Parameters in working of Tablet Compression Machine (5 Marks)
- 5) a. Explain the Quality Control Tests for Glass Containers (5 Marks) (10)  
b. Write a note on the bottle seal and tape seal (5 Marks)

#### SECTION - B

Answer all the questions.

Answer the following (5 marks x 5 = 25 marks)

- 6) A potent narrow therapeutic window drug was discovered for COVID - 19 treatment, which is effective only by intravenous route. Suggest a suitable delivery system for the same with justification. (5)
- 7) Write the procedure for production scheduling in the pharma industry (5)
- 8) What are the legal requirements required to start a pharmaceutical formulation industry? (5)
- 9) Explain how to evaluate stability of packaging material (5)
- 10) Enlist and explain the Finished Product Quality Control Tests that a quality control analyst should analyse for Sofo gelatine Capsules (5)

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