

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)

CLASS: M.PHARM.
BRANCH: PHARMACY

SEMESTER: II
SESSION: SP 2025

SUBJECT: MQA204T PHARMACEUTICAL MANUFACTURING TECHNOLOGY

TIME: 3.00 Hours

FULL MARK: 75

INSTRUCTIONS:

1. The missing data, if any, may be assumed suitably.
2. Before attempting the question paper, be sure that you have got the correct question paper.
3. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
5. Answer any five questions.

- 1a. Discuss the various salient features of sterile and aseptic area layout in pharmaceutical industry [7]
1b. Enlist and discuss the various factors influencing plant layout in pharmaceutical industry. [8]
- 2a. Discuss the various legal requirements for import or sale of active pharmaceutical ingredient or drug in pharmaceutical industry. [7]
2b. Discuss various aspects of personnel, storage and space requirement in pharmaceutical industry. [8]
- 3a. Discuss the various aspects of in process quality control for emulsion. [7]
3b. Discuss the various types of sterilisation methods used in pharmaceutical industry. [8]
- 4a. Discuss the various types of indicators used for validation of sterilisation equipment/processes. [7]
4b. Discuss the various aspects of production planning in detail. [8]
- 5a. Discuss the tablet coating defects [7]
5b. Discuss in detail the processing defects of tablets [8]
- 6a. Discuss the manufacturing of Soft gelatin Capsules with a diagrammatic representation [7]
6b. Discuss in detail the following: [8]
 a. Bloom Strength of Gelatin
 b. Viscosity of gelatin
 c. Minim per gram factor
 d. Base adsorption
- 7a. Discuss in detail about the steps followed in sugar coating [7]
7b. Discuss in detail about the different stages of granulation. Also discuss about the wet and dry granulation [8]

:::::29/04/2025:::::E