

Jadavpur University
Department of Pharmaceutical Technology
Kolkata-700032.

M.Pharm/ 1st year/ 2nd Sem/Time 3 hrs/ FM 75/ 2023-24
Course: Pharmaceutical Production Technology (MIP 203)

Group A: Answer All (10*2=20).

1.

- i. What is shellac?
- ii. Explain Maillard Reaction.
- iii. Give examples of tablet coating machines.
- iv. Give the types of Freeze dryer.
- v. Write down the principle of spray drying.
- vi. Why parenteral preparations should have high purity?
- vii. How zone groupings are done for parenteral preparation?
- viii. What kind of modified lightning fixture is used for parenteral preparation?
- ix. Why warehouse required in pharmaceutical plant?
- x. What is an aseptic room? Difference between aseptic and clean room.

Group B: Answer any seven (7*5=35)

2. Give advantages of granulation for tablet compression.
3. Give the steps of sugar coating.
4. Give applications of Lyophilization technique in pharmaceutical industry.
5. Describe the construction of spray dryer with diagram.
6. Describe defects that can be observed during capsule filling process.
7. Describe defects that can be observed during capsule shell production process.
8. Mention the points as per GMP required for sterile product preparation.
9. Give a short description on warehouse required for parenteral product preparation.
10. How utilities in parenteral preparation are taken care off.

Group c: Answer any two (10*2=20)

11. Write in details the construction and working of Freeze dryer with diagram.
12. For parenteral product preparation how wall and floor treatment is done with lightning Fixtures process. Describe in details.
13. Draw and describe process flow diagram for parenteral product preparation.