



[Time: 3 Hours]

[Max. Marks: 75]

Pharmaceutical Production Technology-II

Q.P. CODE: 5143

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

LONG ESSAY (Answer any Three)

3 X 10 = 30 Marks

1. Explain different drying equipments. Write a note on batch mixing.
2. Draw a layout of parenteral manufacturing unit. Explain the flow of personnel, materials and equipments into aseptic area.
3. Explain in detail on air handling units.
4. Discuss manufacturing of hard gelatin capsules. Give the layout for hard gelatin capsules.

SHORT ESSAY (Answer any Nine)

9 X 5 = 45 Marks

5. Describe the basic principles behind freeze drying.
6. Write the role of roller mill in disperse system production.
7. Compare sugar coating and film coating processes.
8. Discuss utilities and equipment location for parenteral production area.
9. Write a note on equipments for solid dispersion.
10. Explain glass as a packaging material.
11. Describe unit operation improvements for tablet manufacture.
12. Give advantages and disadvantages of lyophilization.
13. Write a note on ultra filtration.
14. Explain environmental control in parenteral production.

* * * * *