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- 3. Explain the improved manufacturing and filling of hard and soft gelatin capsules.
- 4. Write a note on techniques and maintenance of RO and DM.

SHORT ESSAY (Answer any Nine)

9 X 5 = 45 Marks

- With a neat diagram explain the granulation and pelletization equipments
- Explain continuous and batch mixing.
- Explain the principle, construction and working spheronizers.
- 8. Write a note on fluidized bed coating and problems encountered.
- 9. Write about the change rooms, personnel flow and utilities in parenteral production.
- 10. Explain the principle, construction and working process of freeze drying equipments.
- Write a note on mixers and mills used in the production of disperse systems.
- Explain the package print of different dosage forms.
- 13. Explain the techniques of production of WFI.
- 14. Describe Air handling unit with a note diagram.

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