

**PHARMACEUTICS - VI**  
**(Formulative & Industrial Pharmacy)**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Draw diagrams and equations wherever necessary.

**Essay**

**(3x10=30)**

1. Discuss any five tablet defects in detail with an emphasis on causes and solution for these defects.
2. Define controlled drug delivery. Add a note on osmotically controlled systems.
3. Explain the manufacture of soft gelatin capsules. What are the advantages and disadvantages of capsules.

**Short notes**

**(14x5=70)**

4. Any three official evaluation parameters of tablets.
5. Preparation of sterile powders by lyophilization.
6. Nanoparticles.
7. Vanishing and cold cream.
8. Manufacturing of hard gelatin capsule shell.
9. Tablet excipients.
10. Valves and actuators in aerosols.
11. Shaving cream and after shave lotions.
12. Aseptic area and laminar flow unit.
13. Surgical sutures and ligatures.
14. Large volume parenterals.
15. Eye drops and eye ointments.
16. Shell and capsule content of soft gelatin capsules.
17. Filling and sealing of ampoules and vials.

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