

QP Code : 500302

(3 Hours)

[ Total Marks : 70

- N.B. : (1) All questions are **compulsory**.  
(2) **Figures** to the **right** indicate **full** marks.  
(3) **Draw** neat labelled **diagrams** wherever necessary.

1. (a) Explain excipients used in the formulation of tablets with suitable examples. 3  
(b) Write a note on buccal and sublingual tablets. 3  
(c) How will you evaluate coated tablets? 3  
(d) Give the storage conditions and its importance for hard gelatin capsule shells. 3  
(e) Discuss types of Propellants used in the manufacture of Aerosols. 3
2. (a) State the causes for sticking and weight variation in tablets and suggest remedies for the same. 4  
(b) Write a note on Packaging materials for Capsules. 4  
(c) Which are the different types of Aerosol Product Concentrate Formulations? Explain any one. 3
3. (a) Explain sugar coating process for tablets. 4  
(b) State advantages and limitations of hard gelatin capsules. 2  
(c) (i) Elaborate on Plastic as a packaging material for Aerosols. 2  
(ii) Write a brief note on Actuator standard valves. 3
4. (a) Discuss the operation of a Rotary tablet compression machine. 4  
(b) Give the formulation aspects for soft gelatin capsules. 4  
(c) Briefly explain the Quality Control tests for Aerosols. 3
5. (a) Elaborate on any two preformulation aspects for tablets. 2  
(b) Discuss modifications of the conventional tablet coating pan. 3  
(c) (i) Describe any one type of hard gelatin Capsule filling Machine. 4  
(ii) Enlist problems encountered in hard gelatin capsule filling. 2
6. (a) (i) Explain in brief the wet granulation process of tablet manufacture. 3  
(ii) Elaborate on any one equipment used in Drying for tablet manufacturing. 2  
(b) Discuss the Aqueous film coating process for tablets. 4  
(c) Give the floor plan for a capsule manufacturing facility. 2

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