

Q.P. Code : 34980

[Time: Three Hours]

[ Marks:70]

Please check whether you have got the right question paper.

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

- Q.1 a What are post granulation ingredients used in tablets? Give their role with examples. 3  
 b Elaborate on multiple compressed tablets. 3  
 c Describe disintegration test for enteric coated tablets. 3  
 d Discuss steps in manufacturing of hard gelatin capsule shell. 3  
 e Write a note on three-phase aerosol systems. 3
- Q.2 a Write causes and remedies for mottling and hardness variation in tablets. 4  
 b Give an account of materials used in packaging of tablets. 4  
 c Discuss formulation of foam-type aerosols. 3
- Q.3 a Discuss the raw materials used in various steps of sugar coating process. 4  
 b Differentiate between various types of gelatin. 3  
 c Write a note on Metered Dose Inhalers. 4
- Q.4 a Describe the cycle of events during compression using a single punch tablet press. 4  
 b Define "Bloom strength". Write a note on liquid fill formulation for soft gelatin capsules. 4  
 c Explain large scale manufacturing of aerosols by pressure filling method. 3
- Q.5 a Write the importance of flow property studies in manufacturing of tablets. 3  
 b Discuss modifications of conventional coating pans. 4  
 c Classify various hard gelatin capsule filling equipments and explain Dosator type. 4
- Q.6 a Give an account of dry granulation method in tablet manufacture. 4  
 b Discuss raw materials used in immediate release film coating. 4  
 c Describe QC of soft gelatin capsules. 3