

Q.P. Code : 34981

[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 Disintegrants? Explain the various mechanisms of tablet disintegration. 3
 - b Elaborate on Effervescent tablets. 3
 - c What are quality control tests for film coated tablets? 3
 - d Discuss defects of hard gelatin capsule shells. 3
 - e State advantages and disadvantages of aerosols. 3
- Q.2
- a What is "Capping and Lamination" in tablets? Give its causes and remedies. 4
 - b Which are the materials used in strip packaging? Give an account of the strip packing process. 4
 - c Explain the formulation of dispersion type aerosols. 3
- Q.3
- a Discuss the sugar coating process giving suitable examples in each step. 4
 - b Give the flow chart for the manufacturing of gelatin. 3
 - c Write a note on components of aerosol package. 4
- Q.4
- a Explain in detail the physics of tablet compression. 4
 - b Discuss the large scale manufacturing of soft gelatin capsules. 4
 - c Enlist quality control tests for aerosols and explain any one test. 3
- Q.5
- a Justify the importance of stability in preformulation studies. 3
 - b Elaborate on spray and air variables in film coating process. 4
 - c Describe the working of any one hard gelatin capsule filling machine based on 'auger' principle. 4
- Q.6
- a Explain the steps in wet granulation process for tablet manufacture. 4
 - b Define 'enteric coating' and give an account of polymers used for the same. 4
 - c Illustrate the layout for a capsule section. 3