Q.P. Code: 34981

[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. b Elaborate on Effervescent tablets. 3 3 c What are quality control tests for film coated tablets? 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 4 process. 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. Q.4 a Explain in detail the physics of tablet compression. 4 b Discuss the large scale manufacturing of soft gelatin capsules. 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. 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

[Time: Three Hours]