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GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-IV • EXAMINATION – SUMMER • 2014

Subject Code: 142304 Date: 25-06-2014 **Subject Name: Plastics Packing Technology** Time: 10:30 am - 01:00 pm **Total Marks: 70 Instructions:** 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 0.1 (a) Explain What are the functions of package? Explain them in detail. 07 Which are the types of packaging? Explain them in detail. 07 What are the design fundamentals? Explain it in detail. 07 **Q.2** (a) (b) How many different types of paper available for packaging? Explain them in 07 detail with treatment of papers. OR (b) Enlist hazards occurs in distribution and Explain any three. 07 Explain folding cartons in detail with different types of styles and design of Q.3 (a) 07 Folding Cartons. **(b)** Explain corrugated board in detail. 07 OR 0.3 (a) Explain basic design factors for good designing of package? 07 (b) Explain Mechanical Testing done on Plastic Film. 07 **Q.4** (a) Define Package Wrapping. Explain Shrink Film Wrapping in detail. 07 Explain Cushion Packaging in detail. 07 What is Controlled Atmosphere Packaging (CAP)? Explain Features of CAP in 07 **Q.4** detail. **(b)** Provide the different types of plastic available for packaging. Enlist advantages 07 and disadvantages of plastic packaging. Explain Drop Testing in detail. **Q.5** 07 (a) What is Vibration Testing? Explain it in detail. **07** OR (a) Enlist the different types of plastic films available for packaging. Explain Q.5 07 Oriented and non-oriented PP film. (b) Enlist cushion materials available for cushion packaging. Explain them in 07 detail.
