

GUJARAT TECHNOLOGICAL UNIVERSITY
BE – SEMESTER -IV EXAMINATION – SUMMER - 2015

Subject Code:142304**Date: 08/06/2015****Subject Name: Plastics Packaging Technology****Time: 10.30am-01.00pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) What are the Functions of Package? Explain in detail. **07**
(b) Enlist Types of Packaging and explain them in detail. **07**
- Q.2** (a) Explain Shelf Life in detail. **07**
(b) How a Package Creates an Appeal to Customer explain in detail. **07**
- OR**
- (b) How many different Types of Paper available for Packaging? Explain them in detail with Treatment of Papers. **07**
- Q.3** (a) What is Corrugated Board? Enlist types of Corrugated Boards. Provide Properties of Corrugated Board. **07**
(b) Explain Climate Hazards in detail. **07**
- OR**
- Q.3** (a) Enlist the different Types of Plastic Films available for Packaging. Explain LLDPE & PS film. **07**
(b) What is Package Wrapping Techniques? Explain Stretch Wrapping in detail. **07**
- Q.4** (a) Explain Skin Packaging with neat sketch. Explain in brief Blister and Pouch Packaging. **07**
(b) Explain Drop Testing in detail. **07**
- OR**
- Q.4** (a) Explain Shrink Film Wrapping in detail. **07**
(b) Explain Impact and Compression Testing for plastic packaging in detail. **07**
- Q.5** (a) Where we Required Migration Test? Explain with Neat Sketch Water Vapour Transmission Rate (WVTR). **07**
(b) Explain Fibre Drum packaging in detail. **07**
- OR**
- Q.5** (a) What is Regular Slotted Container (RSC)? Enlist types of RSC. Draw and explain different types of Dividers, Liner, Pad and Support Block available in Corrugated Boxes. **07**
(b) Explain with Neat Sketch Gas Transmission Rate (GTR). **07**
