

Seat No.: _____

Enrolment No. _____

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

Subject Code: 142304

Date: 06/01/2016

Subject Name: Plastics Packaging Technology

Time: 02:30pm to 05:00pm

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) What are the design fundamentals? Explain it in detail. **07**
- Q.2** (a) Explain how packaging color is playing most important role as sales medium. **07**
(b) How many different types of paper available for packaging? Explain them in detail with treatment of papers. **07**
- OR**
- (b) With neat sketch Explain different types of styles and design available for Folding Cartons. **07**
- Q.3** (a) Provide the different types of plastic available for packaging. Enlist advantages and disadvantages of plastic packaging. **07**
(b) Enlist the different types of plastic films available for packaging. Explain LLDPE & PS film. **07**
- OR**
- Q.3** (a) What is meant by controlling of packaging atmosphere? Explain Vacuum Packaging and Active Packing Technology. **07**
(b) Explain skin packaging with neat sketch. Explain in brief Blister and Pouch Packaging. **07**
- Q.4** (a) Explain Cartoning system in detail. **07**
(b) 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**
- OR**
- Q.4** (a) What is package wrapping Techniques? Explain Shrink Film Wrapping in detail. **07**
Q.4 (b) Enlist cushion materials available for cushion packaging. Explain them in detail. **07**
- Q.5** (a) Where we required migration test? Explain with neat sketch Water Vapour Transmission Rate (WVTR). **07**
(b) Explain different Testing done on Plastic Package. **07**
- OR**
- Q.5** (a) Explain Drop Testing in detail. **07**
(b) Explain Vibration Testing in detail. **07**