

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.

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| 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 Dum 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 |
