Seat No.: _____ Enrolment No._____

# GUJARAT TECHNOLOGICAL UNIVERSITY

**BE - SEMESTER–IV • EXAMINATION – WINTER • 2014**

**Subject Code: 142304** **Date: 02-01-2015**

**Subject Name: Plastics Packaging Technology**

**Time: 02:30 pm - 05:00 pm** **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)** | Explain Impact and Compression Testing in detail. | **07** |
| | **(b)** | Explain climate hazards in detail. | **07** |
| **Q.2** | **(a)** | How a package creates an appeal to customer explain in detail. | **07** |
| | **(b)** | Enlist different types of Paper available for packaging with advantages and disadvantages. 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)** | Explain Cartoning system in detail. | **07** |
| | **(b)** | Explain Setup Boxes in detail with its types and advantages and disadvantages. | **07** |
| | | **OR** | |
| **Q.3** | **(a)** | Explain corrugated board in detail. | **07** |
| | **(b)** | Explain Fibre Dum packaging in detail. | **07** |
| **Q.4** | **(a)** | Enlist the different types of plastic films available for packaging. Explain Metallized and LLDPE Film. | **07** |
| | **(b)** | What is meant by controlling of packaging atmosphere? Explain Vacuum Packaging and MAP in detail. | **07** |
| | | **OR** | |
| **Q.4** | **(a)** | Explain skin packaging with neat sketch. Explain in brief Blister and Pouch Packaging. | **07** |
| | **(b)** | Explain cushion packaging in detail. | **07** |
| **Q.5** | **(a)** | Explain Testing done on Plastic Package. | **07** |
| | **(b)** | Explain Testing done Corrugated Boards. | **07** |
| | | **OR** | |
| **Q.5** | **(a)** | Explain how packaging graphic is playing most important role sales medium. | **07** |
| | **(b)** | Discuss group wise product evaluation of shelf life. | **07** |

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