| Seat No.: | Enrolment No. |
|------------|---------------|
| Seat 11011 | Emonnent 110. |

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV • EXAMINATION – SUMMER 2013

| | • | Code: 142304 Date: 17-06-2013 | |
|---|------------|---|----------|
| Subject Name: Plastic Packaging Technology Time: 10:30am – 01:00pm Instructions: Total Man | | .0:30am – 01:00pm Total Marks: 70 | |
| Inst | 1. 2. | | |
| Q.1 | (a) (b) | What is Packaging. What are the purposes of packaging? List the various material used for packaging. Enlist the advantages and disadvantages of each material? | 07 07 |
| Q.2 | (a) | Define new product development. Explain the different involved in new product development? | 07 |
| | (b) | Discuss importance of glass in packaging. Discuss manufacturing, advantages and disadvantages? | 07 |
| | | OR | |
| | (b) | Discuss about the natural polymers involved in plastic ing? | 07 |
| Q.3 | (a) (b) | What are the types of packaging and explain each type with suitable examples? Explain the various tests carried out for evaluation of package. Explain about Drop test in detail? | 07 07 |
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| Q.3 | (a) (b) | Define waste hierarchy? Enlist the steps involved in waste hierarchy? Differentiate between Skin and Blister packaging? | 07 07 |
| Q.4 | (a) (b) | Explain various tests conducted on corrugated boards? Write short notes on (1) Shelf life (2) Logistics OR | 07 07 |
| Q.4 | (a) (b) | What is Bag in Box Packaging. Discuss advantages of this kind of packaging? Write short notes on | 07 07 |
| | | (1) Child resistant Packaging(2) Tetra Packs | |
| Q.5 | (a) (b) | What is Biodegradable Packaging. Discuss its importance? Write short notes on (1) Water Vapour Transmission Rate(WVTR) (2) Controlled Atmosphere Packaging(CAG) | 07 07 |
| Q.5 | (a) (b) | Explain in brief about properties and applications of LLDPE films? Discuss importance of paper in packaging. Discuss manufacturing, advantages and disadvantages? | 07 07 |
