

GUJARAT TECHNOLOGICAL UNIVERSITY**B.E. Sem-IV Examination June- 2010****Subject code:142304****Subject Name: Plastics Packaging Technology****Date: 21 /06 /2010****Time: 10.30 am – 01.00 pm****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) 1. What are the functions of a package? **07**
2. What are the essential requirements of a good package design?
(b) Discuss in detail , various types of Packaging. Give suitable examples. **07**

- Q.2** (a) 1. What do you mean by Eco – Label? State its significance in export marketing. **07**
2. What are the methods of evaluation of shelf life of food products?
(b) Explain the main hazards to which a transit package is exposed in (a) loading **07**
and unloading (b) warehousing (c) road transport

OR

- (b) Describe the factors you would consider in developing a new product. Illustrate **07**
your answer with an example from any one of the following product range : (a)
Consumable (b) Pharmaceutical

- Q.3** (a) 1. How are corrugated boards classified? **07**
2. What is a cartooning system? Indicate the factors to be
considered in selection of cartoning system.
(b) What are the essential qualities of corrugated board? Discuss the factors to be **07**
considered in the flute selection.

OR

- Q.3** (a) Explain why a regular slotted container (RSC) is popular as transport package. **07**
(b) 1. what are the package forms of metal container? **07**
2. For what type of product the collapsible tube is the most suited?

- Q.4** (a) Explain the various characterstic of aluminium foil for its wide choice in food **07**
packaging.
(b) Explain the construction features of tetra pack. **07**

OR

- Q.4** (a) 1. what are the essential characteristics of glass containers? **07**
2. What are essential features of good closures?
(b) 1. state the purpose of label on food package. **07**
2. Distinguish between hermit pack and a seal.

- Q.5** (a) Explain the purpose of coating in glass container and discuss the stages of luster **07**
decoration on glass package.
(b) Explain with an example any two packaging situations where tack plays **07**
important role in performance of finished package.

OR

- Q.5** (a) 1. Distinguish between tamper evident and tamper resistance containers. **07**
2. state the importance of colour as sales medium.
(b) Discuss the types of papers used for packaging applications. **07**
