

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- IVth SEMESTER-EXAMINATION – MAY/JUNE- 2012****Subject code: 142304****Date: 31/05/2012****Subject Name: Plastics Packaging Technology****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) Define Packaging? Define functions of a package. **07**
(b) Discuss importance of colour as a sales medium. Discuss factors to be considered for selection of colours for packaging. **07**

- Q.2** (a) Discuss packaging materials used by Pharma Industry. **07**
(b) What is bag in box packaging? Discuss advantages of this kind of package. **07**

OR

- (b) Explain why regular slotted container (RSC) is popular as transport of package **07**

- Q.3** (a) What is Retort Packaging? What are its applications and advantages and disadvantages. **07**
(b) I want to design a package for a product which needs to go for export. The product is a food item . What factors will I consider to design a suitable package. **07**

OR

- Q.3** (a) Distinguish between folding cartons and set up box. **07**
(b) What are the climatic factors that may cause packaging product to deteriorate? **07**

- Q.4** (a) Discuss with neat sketch the working principle of aerosol package in details **07**
(b) What are the design factors consider in good package graphic design? **07**

OR

- Q.4** (a) How are folding cartons classified? **07**
(b) Discuss importance of glass in packaging. Discuss applications , advantages and disadvantages. **07**

- Q.5** (a) Compare the relative merits of DRD and DWI process **07**
(b) Why is metal or glass replaced by plastics in many applications for packaging? Discuss in detail. **07**

OR

- Q.5** (a) What are the advantages and disadvantages of paper based package materials **07**
(b) State the role of lamination as packaging materials. **07**
