

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering - SEMESTER-VI • EXAMINATION – SUMMER 2013

Subject Code: 362306

Date: 22/05/2013

Subject Name: Process Techniques for Finished Plastics

Time: 10:30 am TO 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.
4. English version is considered to be Authentic.

- Q.1** (a) Give the principle for solvent bonding and factors to be considered for good cementing. **07**
(b) List the types of self tapping screw and explain any one in detail. **07**
- Q.2** (a) Write advantages and disadvantages of adhesive bonding. **07**
(b) What is mechanical means? Explain snap fitting. **07**
- OR
- (b) Explain molded-in inserts in detail. **07**
- Q.3** (a) Explain in brief, different methods of applying adhesive. **07**
(b) Explain friction welding as a joining technique. **07**
- OR
- Q.3** (a) Explain dielectric heat sealing in detail. **07**
(b) Explain ultrasonic swaging for joining two parts. **07**
- Q.4** (a) List various surface treatments & explain flame treatment. **07**
(b) List the types of paint materials and explain in brief **07**
- OR
- Q.4** (a) Explain chemical etching as a surface treatment. **07**
(b) Explain spray and wiping as painting technique. **07**
- Q.5** (a) Explain fluidized bed coating. **07**
(b) List various printing techniques & explain pad printing. **07**
- OR
- Q.5** (a) Explain embossing & surface texturing process. **07**
(b) Explain vacuum metalizing process and its applications. **07**
