

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-IV (New) EXAMINATION – WINTER 2015

Subject Code:2142306**Date:28/12/2015****Subject Name: Manufacturing of Plastic Materials-2****Time: 2:30pm to 5:00pm****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) Discuss in detail the High Pressure Process for manufacture of LDPE resins. **07**
(b) Discuss Addition Polymerization technique in detail. **07**
- Q.2** (a) Discuss manufacture of PVC resin in detail. **07**
(b) Discuss the manufacture of Nylon-6. **07**
- OR**
- (b) Discuss properties and applications of PC **07**
- Q.3** (a) Discuss the manufacture of Polystyrene with neat layout. **07**
(b) Discuss properties and applications of PEEK **07**
- or**
- Q.3** (a) Discuss manufacture of Acetal Copolymers. Highlight properties **07**
(b) Discuss properties and applications of PPS **07**
- Q.4** (a) Discuss manufacture of ABS resins. **07**
(b) Discuss properties and applications of PP homopolymers and Copolymers **07**
- OR**
- Q.4** (a) Discuss properties and applications of PTFE **07**
Q.4 (b) Discuss properties and applications of PET resin. **07**
- Q.5** (a) Discuss Solution Polymerization in detail. **07**
(b) Discuss properties and applications of HDPE **07**
- OR**
- Q.5** (a) Discuss properties and applications of LLDPE **07**
(b) Discuss properties and Applications of Nylon-66 **07**
