Roll No:	
-----------------	--



End Semester Examination, April, 2017

Program/course: B-Tech/CERP

Subject: Polymer Processing and Technology
Code: CHEG382

Semester – VIII

Max. Marks: 100

Duration: 3 Hrs

No. of page/s: 01

Section-A

Answer all the questions. Each question carries equal marks

 $5 \times 12 = 60$

- 1. Discuss the methods to select sheet temperature range in thermoforming process.
- 2. Compare Extrusion blow molding with injection blow molding
- 3. Discuss the functions of various zones in single screw extruder
- 4. Discuss about various rheological models.
- 5. The free-radical polymerization reaction is to be carried out in a CSTR.
 - (a) Plot effluent initiator and monomer concentrations as function of the space-time. 6M
 - (b) Compare your results for two equal-sized CSTRs in series with one CSTR. The total volume is the same in both cases.

Section-B

Answer all the questions.

 $2 \times 20 = 40$

- 6. (a).Discuss methods to improve uniformity of wall thickness distribution in thermoforming process 10M
 - (b). Discuss about roto molding process

10M

7. Explain in detail the Ziegler-Natta Process to prepare polyethylene

INIVERSITY WITH A PURPOSE