Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering - SEMESTER-VII • EXAMINATION – WINTER • 2014

Subject	Code: 37 2	2302 Date: 02-	12-2014
-	0:30 am -	xtrusion Die Design 01:00 pm Total Ma	arks: 70
1. 2. 3.	Attempt al Make suita Figures to	l questions. ble assumptions wherever necessary. the right indicate full marks. rsion is considered to be Authentic.	
Q	.1 (a)	Draw a neat sketch of Pipe die. Label all the parts of die.	14
Q	(a) (b)	List types of flow regarding rheology. Explain them with diagrams Explain about materials for extrusion dies. OR	07
	(b)	Define any four.: (1)Shear stress (2)Shear rate (3)Viscosity (4)Die swell (5)Melt fracture	e- 07
Q	(a) (b)	Explain factors affecting die design. Explain die geometry.	07 07
Q	(a) (b)	OR Explain streamlining of extrusion dies Explain function of screen pack and breaker plate.	07 07
Q	(a) (b)	Classify extrusion dies with respect to melt flow direction. Explain them in brief with neat sketch. List types of sizing calibrators for pipe extrusion. Explain any one with neat sketch.	07 07
Q.	(a) (b)	OR Explain various factors to be considered for die adaptor design. Describe general die design rules.	07 07
Q	(a) (b)	Draw neat sketch of flat film die. Explain difference between pressure die and tubing die for wire coating with neat sketch.	07 07
Q	(a) (b)	OR Draw a neat sketch of wire and cable coating die. Explain fish tail sheet die for heat sensitive materials with neat sketch.	07 07
