	Seat No	.: Enrolment No	
	Ľ	GUJARAT TECHNOLOGICAL UNIVERSITY Diploma Engineering - SEMESTER-IV • EXAMINATION – WINTER • 20	14
	Subjec	et Code: 3342301 Date: 28-11-2012 et Name: Blow, Rotational and Thermoforming Process 02:30 pm - 05:00 pm Total Marks: 7 ions:	
	2	<ol> <li>Attempt all questions.</li> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> <li>English version is considered to be Authentic.</li> </ol>	
Q.1	(a)	Compare Blow moulding, Rotational moulding and Thermoforming process.	07
	(b)	Explain process steps for rotational moulding with figure.	07
Q.2	(a)	Explain basic principle of blow moulding process with neat sketch.	07
	(b)	List various polymeric materials used for blow moulding process. Write in brief about any two materials.	07
		OR	
	(b)	List various parison blowing system and explain any one.	07
Q.3	(a)	Write short note on 'parison programming'.	07
	(b)	Write short note on 'Die orifice and Mandrel Design' in extrusion blow moulding.	07
		OR	
Q.3	(a)	Write down about advantages and disadvantages of Blow moulding.	07
	(b)	Describe various blow moulding processing parameters.	07
Q.4	(a)	Describe raw material requirements for Rotational moulding.	07
	(b)	Explain any one type of rotational moulding machine.	07
		OR	
Q. 4	(a)	Explain trouble shooting of rotational moulding process.	07
	(b)	Explain heating and cooling of rotational mould.	07
Q.5	(a) (b)	Write short note on any one type of Thermoforming process.  Describe applications of Thermoforming process.	07 07

**07** 

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List various thermoforming machines and explain any one. Write short note on 'Materials for Thermoforming'.

Q.5

(a)

(b)

OR