Seat No.:	Enrolment No

## GUJARAT TECHNOLOGICAL UNIVERSITY

## DIPLOMA ENGINEERING - SEMESTER -VI • EXAMINATION - WINTER 2015

Subject Code: 3362305		Date:	14/12/2015		
Subj	ect Na	ame: Secondary Processing Techniques			
Time	Time: 02:30 PM TO 05:00 PM Total Marl				
Instru	ictions				
1.		empt all questions.			
2.		ke Suitable assumptions wherever necessary.			
3. 4.		ures to the right indicate full marks. e of programmable & Communication aids are strictly prohibi	ited		
5.		e of only simple calculator is permitted in Mathematics.	icu.		
6.		glish version is authentic.			
Q.1		Answer any seven out of ten.			14
•	1.	Write the full form of (a) SMC (b) TMC			
	2.	List any four Raw-material uses for the calendaring proces	SS.		
	3.	Write down the application of Encapsulation.			
	4.	Define FRP.			
	5.	Write down the application of Vinyl Dispersion.			
	6.	List the type of fiber use in making reinforce plastic.			
	7.	Write down function of Release agent and Filler.			
	8.	Define casting.			
	9.	Write down application of Foam.			
	10.	Write down purpose of Gel-coat.			
Q.2	(a)	Write a short note on Glass-Fiber.			03
		OR			
	(a)	Write a short note on Blowing agent.			03
	(b)	Write down advantages and disadvantages of Foam.			03
	(h)	OR State any three Consul modulation methods for Form			02
	(b)	State any three General production methods for Foam.			03
	(c)	Define (a) Plastisol (b) Organosol			04
		OR			
(	(c)	Write down the application of FRP.			04
	(d)	Write a short note on Encapsulation process.			04
		OR			_
	(d)	Write a short note on Hand lay-up process.			04
Q.3	(a)	Explain the Filament winding process with neat sketch.			07
	(-)	OR			Δ.
	(a)	Explain the Pultrusion process with neat sketch.			07

	(b)	Explain the type of calendar roll arrangement.	07
		OR	
	(b)	Discuss any one premixing process with neat sketch.	07
Q.4	(a)	Write down advantages and disadvantages of Fiber Reinforce Plastic.	03
		OR	
	(a)	State different type of resin use in FRP and explain characteristics of polyester resin.	03
	(b)	Write down the advantages and disadvantages of Calendaring process.  OR	04
	(b)	Define (a) syntactic foam(b) closed-cell foam(c) open-cell foam(d)K- factor	04
	(c)	Draw line diagram of calendaring process.	07
Q.5	(a)	Explain the process step of casting.	04
	(b)	Explain slush molding process.	04
	(c)	Explain the mold material use for casting process.	03
	(d)	Explain Heating system for calendar roll.	03

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