Seat No.: Enrolment No

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V (NEW) - EXAMINATION - SUMMER 2017

Subj	ect o	code: 2152606 Date:03/	05/2017			
Subject Name: Latex processing & Its Application (ATKT)						
Time	e: 02	2:30 PM to 05:00 PM Total M	Tarks: 70			
Inst	ruct	ions:				
	1.	Attempt all questions.				
		Make suitable assumptions wherever necessary.				
	3.	Figures to the right indicate full marks.				
0 1		4 6 11 - 1	(14)			
Q. 1	Ans 1	wer the following. Give basic difference between latex Dipping and Latex Casting.				
	2	Write any two advantages of rubberized paper.				
	3					
	4	List the basic types of Gelling agent.				
	5	Write any two latex dipped goods. Give the advantages of latex based adhesive over conventional adhesive.				
	6	List the basic types of Rubber thread.				
	7	Name the equipment used for mechanical foaming of latex.				
	8	What do you mean by Non-Woven fabric?				
	9	List out the characteristics of mould materials used for latex moulding.				
	10					
	10					
	12	** •				
	13					
	14					
Q. 2	(a)		(03)			
Q. 2	(a) (b)		(04)			
	(c)		(07)			
	(•)	OR	(07)			
	(c)	Describe the Heat sensitized dipping with its advantages.	(07)			
Q. 3	(a)	Draw the schematic diagram for any one latex spreading method.	(03)			
	(b)	Mention the principal components of latex surface coating compositions and write the function of any one.	(04)			
	(c)	Draw the schematic diagram of Lick-roll method for manufacturing of carpet backing and explain it in detail. OR	(07)			
Q. 3	(a)		(03)			
	(b)		(04)			
	(c)	· · · · · · · · · · · · · · · · · · ·	(07)			
Q. 4	(a)	Write about the function of Uncooked starch in compounding of latex- based adhesive.	(03)			

	(b) (c)	How polymer is selected for bonding of two Porous substrates? Write a detailed note on Beater Addition process.	(04) (07)
		OR	
Q. 4	(a)	Write the importance of Plasticizers in compounding of latex-based adhesive.	(03)
	(b)	Write about the selection of polymer in latex based adhesive for bonding of Non-Porous surfaces.	(04)
	(c)	Discuss about Paper Saturation method with its advantages and disadvantages.	(07)
Q. 5	(a)	Give the advantages of addition of latex in cementitious compositions.	(03)
	(b)	Write about Slush moulding in brief.	(04)
	(c)	Discuss about various parameters which affect the latex extrusion process in detail.	(07)
		OR	
Q. 5	(a)	Write about any one problem associated with incorporation of latex in cementitious compositions.	(03)
	(b)	Write a brief note on Rotational moulding method.	(04)
	(c)	Describe the manufacturing of latex thread.	(07)
