## B.Tech. Sixth Semester (Polymer (Plastic) Tech.) (CGS)

## 11127: Elastomer Technology: 6 PP 02

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Tin	ne : Thr	ce Hours	Max. Marks	: 80
	Note	s: 1. 2. 3. 4. 5. 6. 7.	Answer Three question from Section A and Three question from Section B.  Due credit will be given to neatness and adequate dimensions.  Assume suitable data wherever necessary.  Diagrams and chemical equations should be given wherever necessary.  Illustrate your answer necessary with the help of neat sketches.  Discuss the reaction, mechanism wherever necessary.  Use of pen Blue/Black ink/refill only for writing the answer book.	
			SECTION – A	
1.	a)		you mean by Elastomer? Discuss basic raw materials, properties & characteristic es of Elastomers.	7
	b)	Explain	mastication and compounding process in rubbery industry.	6
			OR	
2.	a)	How wo	ould you prepare air-dried sheet smoked dried sheet from latex rubber?	7
	b)	Discuss	storage, hardening and crystallization of natural rubber?	6
3.	a)	Explain	in detail manufacturing process of Nitrile rubber?	6
	b)	What do	you mean by Vulcanization? Explain the type of vulcanization & its significance.	7
			OR	
4.	a)	Discuss	characteristic properties and application of oil extended rubber?	6
	b)	State the	e important factors & condition which affects vulcanization.	7
5.		Explain i) SB	the processing, properties & applications of followings:- R ii) Butyl Rubber.	14
			OR	
6.			you mean by Retrading of fire? Discuss the design aspect consideration & design for retrading of fire?	14
			SECTION - B	
7.	a)	What do	you mean by Additives? Give its different type & their role in polymer nding.	9

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	b)	What are colourant? State it's few example with its selection criteria.						
		OR						
8.	a)	What are plasticizers? Give it's role in compounding and any two theories for study.	9					
	b)	What are lubricant? Give with examples its various type.	5					
9.		Give properties and selection criteria for the following additives:  i) Processing aid  ii) U.V. stabilizers.  iii) Flame retardants.						
	OR							
10.		What are the different Antiaging additives used in compounding? Give their detail properties and selection criteria to study.						
11.	a)	Explain in detail preparation, properties and application of Animal Glue and Fish Glue.	9					
	b)	What are the basic requirements for any substance to be selected as an adhesive?	4					
		OR						
12.	a)	Define & explain the following terms:  i) Adhesion  ii) Adherent  iii) Adhesive.	4					
	b)	Give process details, properties and application of any two commercial adhesive.	9					
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