TED (10)	0) – 3086 Reg. No	
(REVISION	N — 2010) Signature	
	THIRD SEMESTER DIPLOMA EXAMINATION IN POLYMEI TECHNOLOGY — MARCH, 2015	2
	SYNTHETIC RUBBER	
	[Tim	e: 3 hours
	(Maximum marks: 100)	
		8
		Marks
	PART—A	
	(Maximum marks: 10)	
	Answer the following questions in one or two sentences. Each question ca	rries
2	2 marks.	
1.	1. Define Tg of a polymer.	
2.	2. Define Hot and Cold NBR.	
3.	3. Butyl rubber has high air impermeability. Why?	
4.	4. Define HSR.	
5.	5. Name the polymers under trade name Thiokol and CO.	(5x2=10)
	PART—B	
* ,	(Maximum marks : 30)	
II Ar	Answer any five of the following questions. Each question carries 6 marks.	
1.		
2.	_	
3.		
4.		*
5.		
6.		
7.		(5x6=30)
e 'ee		
	PART—C	
96 E	(Maximum marks: 60)	
((Answer one full question from each unit. Each full question carries 15 mar	rks.)
	Unit – I	
III (a)	a) Explain the production of Isoprene and Isobutylene monomer.	7
(b)	b) Describe the production applications vulcanizing system and properties of	of IIIR &

OR

		그 기다면 되었어요. 여행 전 그가 어려면 그 그릇이나 그렇게 다 하지만 살아 보일	Marks
IV	(a)	Explain the production of Ethylene Propylene Rubber and its properties.	8
	(b)	Describe the production of Isoprene rubber and compare with NR.	7
		$U_{ m NIT}-II$	
V	(a)	Describe the process, vulcanization, properties and application of Silicone rubber.	7
	(b)	Describe the production of NBR, its properties and applications.	8
		OR	
VI	(a)	Explain the production of Polysulphide rubber and advantages and applications.	7
	(b)	Describe the production of Poly Chloroprene rubber.	8
		Unit — III	
VII	(a)	Describe the production of butadiene polymers.	7
	(b)	Describe the production of chlorinated poly ethylene.	8
		OR	
VIII	(a)	Explain the production steps of Epichlorohydrin.	8
	(b)	Describe the Carboxylated SBR.	7
		Unit – IV	
IX	(a)	Explain the production of Styrene Butadiene Termoplastic polymer.	8
	(b)	Explain the production of Ethyl Vinyl Acetate.	7
		OR	
X	(a)	Explain the Urethane based Thermoplastic.	8
	(b)	Describe the properties of NBR-SBR and other blends.	7
		보는 사람들이 되었다. 그는 사람들이 되었다. 그런 사람들이 가장 바로 하는 것은 것은 것을 하고 말했다. 그런 것은 것이다. 	
		그 사람들이 있다고 선물이 있으셨다면 하는데, 이번에 해제하는데 어린데 이번에 대한 이번에 대한 작가를 하는데 다른데 다른데 다른데 다른데 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면	