Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. Sem-III Examination December 2009

Subj	ect	code:	130501			
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Subject Name:	Organic	Chemistry	and Un	it Processes
Subject Maine.	Organic	Chemistry	anu On	11 1 1 0 1 1 2 2 2 2 2 2

Date: 21 / 12 / 2009	Time: 11.00am to 1.30pn
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Total Marks: 70

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In	ctrii	ctio	nc

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Define	the followings (An	y Seven)			07		
		1.	Dyes		2.	Oxidation Reaction			
		3.	Starch	4	4.	Cracking-anti cracking			
		5.	Cetane number	(6.	Asymmetric Carbon			
		7.	Hetero Atom	8	8.	Alkylation			
	(b)		s Electrophilic subs on with mechanism.		ction?	Explain the halogenation	07		
Q.2	(a)	Write the Composition of Crude Oil. Explain preparation of "Synthetic Petrol" by Bergius process.							
	(b)	Define Unit Process. Discuss the manufacturing of Nitrobenzene from benzene by continuous nitration with fortified spent-acid process.							
		OR							
	(b)		s Pigment? Explain and Hipsochromic e		theory	y of colour with Bathochromic	07		
Q.3	(a)	What is isomerism? Explain the Geometrical isomerism in Tartaric acid 07 and Valeric acid.							
	(b)	Define				crose. Explain the extraction eet diagram.	07		
				OR					
Q.3	(a) (b)	Write	- 1			cid and Oxalic acid. onthetic Polymer. Explain the	07 07		
Q.4	(a)		do you meant by Gricompound with exa		ents? I	Discuss Organomegnesium	07		
	(b)		the chemical reaction	on, propertie	s and ı	uses of benzene.	07		
Q.4	(a)	Dogori	be in detail the Che	OR	Avotha	lana and Ethanal	07		
Ų. 4	(a) (b)			-		nd. ? Discuss about any one	U /		
	(0)		nember ring compou	-	mpour	id. ! Discuss about any one	07		
Q.5	(a)		entiate between Glue to Ketose.	cose and Fro	uctose.	Write the Conversion of	07		
	(b)		n the sulfonation an	d aminofica OR	ition of	Naphthalene.	07		
Q.5	(a) (b)		n the reaction, mech	perties and u	applica	Aromatic compound Phenol. ation of Perkin reaction.	07 07		