Seat No.:	Enrolment No
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## GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER- III EXAMINATION – SUMMER 2015

Subject Code: 130501 Subject Name: Organic Chemistry & Unit Process			
Time: 02.30pm-05.00pm T		.30pm-05.00pm Total Marks: 70	
	1.	ons: all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	What is synthetic Petrol? Explain method of manufacturing of synthetic Petrol. Write a note on (a). Pigment (b) Dyes.	07 07
Q.2	(a) (b)	Explain fractional distillation of crude oil and state the varieties of it with uses. Write two examples of five member ring. Explain chemistry of any one compound in detail.	07 07
	<b>(b)</b>	<b>OR</b> Give note on (1) Acetic anhydride (2) Polyethylene.	07
Q.3	(a) (b)	Explain various reactions of benzene in detail.  What is isomerism? Discuss the geometrical isomerism in tartaric acid and valeric acid.	07 07
		OR	
Q.3	(a) (b)	Write preparation, properties and uses of oxalic acid and acetic acid. Note on (1) chloroform, (2) Ethanol.	07 07
Q.4	(a) (b)	Explain classification and chemical reactions of starch in detail.  Give any two examples of poly nuclear aromatic compound and explain sulphonation and aminophication of naphthalene.  OR	07 07
Q.4	(a) (b)	Write a note on Michael Dickman reaction with example.  Describe carbohydrates. Explain the manufacturing process of glucose in detail.	07 07
Q.5	(a)	What is heterocyclic compound? Discuss any two compounds with types of reactions.	07
	<b>(b)</b>	Distinguish between synthetic and natural polymer with three nos. of examples.  OR	07

Q.5 (a) What is Grignard reaction? Give a short note on synthesis of Grignard reagent

**(b)** Write preparation, properties and uses of: (1) Phenol (2) soap and Detergent.

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and reactions with carbonyl groups.

**07** 

**07**