Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## **BE - SEMESTER-V • EXAMINATION - SUMMER • 2015**

Subject Code:153503 Subject Name: Basics of Fuel Time:2:30 pm to 5:00 pm Instructions:		Code:153503 Date:07/05/201	Date: 07/05/2015  Total Marks: 70	
		30 pm to 5:00 pm Total Marks: 7		
	1. 2. 3.	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.		
Q.1	(a) (b)	Write methods of finding ultimate analysis of fuel? Write a note on coal as a fuel.	0' 0'	
Q.2	(a)	Compare conventional fuel like coal, gasoline with unconventional like animal and agro waste.	0'	
	<b>(b)</b>	Explain type of waste generated within municipal area?  OR	0′	
	<b>(b)</b>	Draw a neat flow sheet of transformation of municipal waste to fuel cell?	0'	
Q.3	(a) (b)	Write a note on atmospheric distillation for crude refining?  Explain: aniline point, fire point and pour point?  OR	0'. 0'.	
Q.3	(a) (b)	Write a short note on furnace oil? Kerosene as a fuel explains?	0' 0'	
Q.4	(a) (b)	Write about different grade of gasoline and their properties.  Explain process of ethanol production and its different blending proportion with conventional fuel.	0' 0'	
Q.4	(a) (b)	OR Write process of production for biodiesel. Write note on Lurgi Process.	0′ 0′	
Q.5	(a) (b)	Explain oil spillage and its' environmental impact.  What are the precautions one should take while burning fuel?  OR	0'. 0'.	
Q.5	(a) (b)	Write note on Baggas as a fuel. How does basics of fuel being useful for your respective branch?	0' 0'	

\*\*\*\*\*\*