## Paper / Subject Code: 41906 / 3)Petroleum Refining Technology

[ Marks:80]

B.E. (Chemical) (REV. -2012)(CBSGS) SEMESTER - VII / 41906 - 3)Petroleum Refining Technology

[Time: Three Hours]

			85
		Please check whether you have got the right question paper.	7 £
		N.B: 1. Question.No.1 is compulsory.	\$67
		2. Attempt any three questions out of remaining five questions.	200
		3. Figures to the right indicate full marks.	2
		4. Neat flow sheets must be drown whenever necessary	727
Q.1		Explain and discuss the importance of following	20
	a)	ASTM distillation and TBP distillation.	
	b)	UOP characterization factor and Correlation index.	3
	c)	Ried Vapour Pressure	
	d)	Sweet and sour crude oil	
<b>Q.2</b>			
	a)	Name the major oil fields in India along with the types of Indian crude oil. What are the different	<b>10</b>
		methods for locating the crude oil?	
	b)	Explain different tower arrangement used for crude distillation unit with a suitable diagram.	<b>10</b>
Q.3			
			<b>10</b>
	b)		10
		process with neat diagram	
~ .		9,5,6,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8	
<b>Q.4</b>			4.0
	a)	Describe the importance of coking operation in refinery. Explain delayed coking operation in detail	10
	1. \	with suitable flow diagram.	10
	b)		10
		catalytic cracking process in detail.	
Q.5			
_	<b>a</b> )	Explain the sulfur dioxide treatment to remove aromatics from kerosene stream.	10
	-	What is Gasoline? Explain briefly about the blending of Gasoline along its significance in refinery.	
	D)	what is Gasonne: Explain offerty about the olending of Gasonne along its significance in termery.	10
<b>Q.6</b>		Write short notes on following	20
_	a)	HF Alkylation process along with its merits and demerits	-
		Air blowing bitumen process of Asphult	
	<b>c</b> )	Ethanol as a bio-fuel	
E	d)	Petroleum jelly	
D 2		5 4 4 6 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Y 10",	7 9	8.64 V 5.64 5.12 9.70 4.60 6.60 8.17 8.10 8.20 8.	