	210	210	210	210	210	210				
	R	egistration No :								
Tof	al num	uber of pages : 02				B.Tech				
	210		210	210	210	210 PCE7J002				
		7 [™] Se PET	Time: Max Ma	NERY ENGINE H : CHEM 3 Hours arks : 100	2018–19 EERING					
Ar	nswer 210	Question No.1 (Part-I) which is com ²¹⁰ from	Part-III.	210	rt-II, and any TWO				
		•	s in the right-ha ver all parts of	-						
			Pa	irt – I						
		Short Answer Type C	Questions (Answ	/er All TEN)						
Q1		Answer the following	questions :			(10 x 2)				
	a)0	What is the elemental	composition of cr	rude oil? ⁰	210	210				
	b)	Discuss about general properties of paraffins.								
	C)	State two points again	st the carbide the	eory.						
	d)	What is knocking? Giv	e an example of	anti-knocking ag	gent.					
	e)	Define Degree API.								
	f)	Discuss the different g	rades of LPG.							
	g)	Mention the different	types of gasol	ine which is b	lended with stra	light run				
	210	gasoline. ²¹⁰	210	210	210	210				
	h)	Define Octane Numbe								
	i)	Define Cetane Numbe								
	j)	Why additives are req	uired?							
		Focused-Short Ans		rt – II estions(Answei	r Any EIGHT	out of				
	210	TWELVE) 210	210	210	210	210				
Q2		Answer the following				(6 x 8)				
-	a)	-	•	for processing	of crude oil.					
	b)	Discuss the three stage distillation units for processing of crude oil. Mention thepre-treatment processes for crude petroleum before refining.								
	c)	Discuss about the different types of additives that are blended into gasoline.								
	d)	Discuss in detail abou			U					
	e)	How sulphuric acid alk	=		get alkylate?					
	f) 0	Give a brief description	• •	-	210	210				
	g)	Discuss about the general properties of paraffin, unsaturates, and aromatics.								
	h)	Discuss about TBP apparatus.								
	->	Why acid, alkali, and clay treatments are necessary for petroleum products?								
	i)	How low temperature isomerisation processes is carried out for butane?								
	i) j)	How low temperature	somerisation pro	cesses is carrie	d out for butane?					
		How low temperature How furfural extraction								
	j)		is carried out for	r upgrading the l	_ube oil?					

210	210	210	210	210	210	210	210

Part – III

	Q3		Long Answer Type Questions (Answer Any TWO out of FOUR) Discuss in detail about the origin and formation of crude mentioning elaborately about its composition, constituent, and classification based on nature of							
210		210	hydrocarbon	210	210	210	210		210	
	Q4		Why purification of petro commercial purification p					(16)		
	Q5		Discuss in detail abou suitable for specific uses		of petroleum	n products whicl	ו makes	(16)		
210	Q6	210	What is cracking mentio catalytic cracking, feed, in this.					(16)	210	

210	210	210	210	210	210	210	210
210	210	210	210	210	210	210	210
210	210	210	210	210	210	210	210
210	210	210	210	210	210	210	210
210	210	210	210	210	210	210	210