0		210 210	210	210	210	210	210						
		Registration No :											
Total Number of Pages : 02 B.Tec PCE4I10													
0	Answe	er Question No.1 (Pa	Time : Max Ma Q.COE art-1) which is comp	RGY TECHNOI H : CHEM 3 Hours arks : 100 DE : F685 oulsory, any e	LOGY ²¹⁰	210 and any two	210						
0		210 Thể fi	Pa gures in the right h	rt-III. and märgin in	dicate marks.	210	210						
	Q1 a) b) c)	State elemental comp State drift theory of fo	Type Questions (Ans	coal.			(2 x10)						
0	d) e) f) g) h) i)	Write properties of me State the impurities po What is OPEC and na Define Diesel index. What is a gas produce Describe the preparate	etallurgical coke.	210 ries? er gas.	210	210	210						
0	Q2	Part- II 210 Part- II 210 210 210 210 210 210 210 210 210 210											
	a)	Explain storage of coa	al to avoid spontaneou	s combustion.									
	b)	Explain in detail the washability curves with neat figure.											
	c)	Differentiate between	HTC and LTC.										
	d)	Explain froth floatation	n process of coal clear	ning.									
0	e)	Explain vacuum distill	ation of crude oil.	210	210	210	210						
	f)	Differentiate between	cracking and reformin	g.	<i>L</i> 1 <i>V</i>	-10	210						
	g)	g) Explain Fischer-Tropsch synthesis with flow diagram.											
	h) Write the properties of products obtained from atmospheric distillation of crude oil.												
	 Write the production of coke oven gas and blast furnace gas. 												
	j)	Write short note on TI	norium.										
0	k)	remaining being asl	found to contain the f h. Estimate ²¹ the qua sample. Find the com	ntity of minimເ	um air ²¹ required	for complete	210						
	I)	H=5.2%, O= 12.8%,	as found to contain th N=3.7%,S= 1.2%, as te combustion of 1 kg	h=2.1%. Calcula									
0		210 210	210	210	210	210	210						

210	210	210	210	210	210	210	210				
			F	Part-III							
Q3	Only Long Answer Type Questions (Answer Any Two out of Four) Describe in detail about the characteristics& distribution of Indian coals. Discuss the calorific values and uses of all types of coal.										
210 Q4	210	210 e recovery of by	210	210	210 uss the products	210 s obtained from	210 (16)				
Q5	Q5 Explain fluidized bed catalytic cracking process with neat figure.										
Q6	Name diffe pressurize	erent types of nuc d water reactor.	clear reactors w	ith their advanta	ges and disadva	ntages. Explain	(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				
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