Reg. No. :					
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Question Paper Code: 59516

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2019

Elective

Electronics and Instrumentation Engineering

15UEI916 - INSTRUMENTATION AND CONTROL FOR PETROCHEMICAL

		INDUSTRIE	S			
		(Regulation 20	15)			
Dι	ration: Three hours			Maximum: 100 Marks		
		Answer ALL Que	estions			
		PART A - $(10 \times 1) = 1$	10 Marks)			
 2. 	Which is called Black Gold (a) crude oil Hydrogen percentage (by v	(b) lube oil	(c) diesel oil bleum may be abo	(d) fuel oil out (R)		
	(a) 5	(b) 15	(c) 25	(d) 35		
3.	Petrol is also known as					
	(a) Gasoline	(b) LPG	(c) Petroleum	(d) Crude oil		
4.	The Thermally enhanced oil recovery is injection.					
	(a) Microbial	(b) Steam	(c) Gas	(d) Chemical		
5.	5. Which of the following is almost pure Carbon?					
	(a) Asphalt	(b) Residual fuel	(c) Coke	(d) Distillate fuel		
6.	The process used to conver	rt paraffins into isopa	raffins is			
	(a) Cracking(c) Polymerisation		(b) Isomerisation(d) Alkylatio			
7.	7. The important raw material used for the production of Poly Vinyl Chloride is					
	(a) Methane(c) Ethylene oxide		(b) Ethane (d) VCM			

8.	Hig	gh Density Pol	pressure.	pressure.				
		(a) High	(b) Low	(c) Very high	(d) Consta	nt		
9.	Col	king is a metho	od of					
	(a) Thermal Cracking(c) Reforming			(b) Catalytic Cracking(d) Alkylation				
10.	The	e	_ is used for preventing	g the error rather than it is	corrected.			
	(a) Feedback control(c) Ratio control			(b) Feedforward control(d) Selective control				
			PART - B (5	x 2 = 10 Marks)				
11.	Wh	nat is adsorptio	n?					
12.	Det	fine catalytic c	racking.					
13.	Sta	te the propertion	es of VCM					
14.	Wh	nat is octane nu	mber?					
15.	Wh	nat is meant by	LEL and UEL?					
			PART - C (5 x	x 16 = 80 Marks)				
16.	(a)	•	petroleum processing	ry and Enumerate the vari	·	(16)		
	(b)	Explain the v		Or ues in the petroleum plant		(16)		
17.	(a)	Discuss with	neat P and I diagram the	e production of ethylene fr Or	om petroleum. ((16)		
	(b)	Explain the st	eps involved in polyme	rization.	((16)		
18.	(a)	Write down the	ne physical and chemica	al properties of polypropyl Or	ene ((16)		
	(b)	Describe the	process involved in the	manufacturing process of	methanol. (16)		
19.	(a)		n a petroleum industry.	refinery? Name thevariou Or		(16)		
			common methods of dea	nsity measurement inpetro	_	(16)		

tries
(16)
(16)