4M

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	I/IV B.Tech (Regular) DEGREE EXAMINATION	
DE	CEMBER, 2018 Computer Science and Engine	eering
Firs	st Semester Engineering Cher	mistry
Time	e: Three Hours Maximum : 50	-
Ansv	wer Question No.1 compulsorily. (1X10 = 10	OMarks)
Ansv	wer ONE question from each unit. (4X10=40	Marks)
	nswer all questions (1X10=10	Marks)
a	What is alkalinity of water	
b	Write any two examples for coagulants	
c d	What is meant by olloidal conditioning? Define entropy	
e	What is 'Pilling-Bedworth rule''?	
f	Define Anti knocking agent. Give an example	
g	Define calorific value of fuel.	
h	Write the main constituents of LPG.	
i	What is Markownikoff"s rul@	
j	What is conducting polymer?	
_	UNIT – I	
2.a	Distinguish between hard water and soft water	3M
2.b	Explain the following i).Boiler corrosion ii). prevention methods of scale	7M
	(OR)	
3.a	Explain any Inreedisinfection methods.	5M
3.b	Explain the method of treatment of brackish wateElectro dialysis	5M
	UNIT – II	
4.a	Derive Nernst equation for single electrode potential.	4M
	Explain Chemicabr Dry corrosionand its mechanism	6M
	(OR)	
5.a	Explain how corrosion of a material is controlled by Cathodic protection method.	6M
5.b	Write short note of lectroless plating of Nickel.	4M
	UNIT – III	
6.a	Discuss the determination of calorific value of solid fuel by Bomb calorimeter.	7M
6.b	Write short note onetanenumber	3M
	(OR)	
7.a	Write short note on refining of crude petroleum. Write various fractions obtained	frЮm
	petroleum.	
7.b	What are Bio Fuels? Write any one method for the preparation of Bio diesel.	ЗМ
	UNIT – IV	
8.a	Explain with mechanism SN¹ and SN³ reactions	6M
8.b	Explain a method of synthesis offspirin"	4M
	(OR)	
9.a	Distinguish between Thermoplastic and Thermosetting polymers	6M

9.b Explain the preparation and applications of any one of Biodegradable polymers.