1+4+1=6

1+4=5

4

2023

B.A./B.Sc.

Third Semester

SKILL ENHANCEMENT COURSE - 1

CHEMISTRY

Course Code: CHS 3.11 (Fuel Chemistry)

Total Mark: 35 Pass Mark: 14

Time: 2 hours

Answer two questions, taking one from each unit.

advantages of catalytic cracking.

composition?

(d) Write a note on liquid fuels.

	UN11-1					
۱.	` '	ue? Explain taking specific examples. scuss the uses of coal in various indust				
			1+4=5			
	(c) What is water gas?	Give its preparation, composition and				
		1	1+1+1+1=4			
	(d) Write a note on the f	0				
	(i) Hydrogasification		$2\frac{1}{2}$			
	(ii) Catalytic gasific	ration	2			
2.	(a) What are fuels? Giv	re the classification of fuels.	1+21/2=31/2			
	(b) Discuss the process	of liquefaction of coal with diagram.	ϵ			
	(c) Explain the process	of fractionation of coal tar.	5			
	(d) Write a note on the f	following:	$1\frac{1}{2} \times 2 = 3$			
	(i) Coal gas					
	(ii) Producer gas					
	UNIT-II					
3.	(a) What is oil refining	process?	21/2			
	(b) What is catalytic cracking? Explain the different types and give the					

(c) What are lubricants? How are they classified based on the

4.	(a)	What is LPG? How are they manufactured?	$3\frac{1}{2}$
	(b)	Discus the working principle of gobar gas plant.	6
	(c)	Explain the products obtained from petroleum. How are they	
		classified based on their boiling temperature?	5
	(d)	Write a note on conducting and non-conducting lubricating oils.	3

-2-