## Website:- https://www.arjun00.com.np

Council for Technical Education and Vocational Training

## Office of the Controller of Examinations

Sanothimi, Bhaktapur

Regular/Back Exam-2078,	Magh/Falgun	(Scholarship+Regular)
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Program:

Diploma in Engineering ALL

Full Marks: 60

Year/Part:

I/II (New + Old Course)

Pass Marks: 24

Subject:

Chemistry II

Time: 3 hrs

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

		Group 'A'			
Attempt All questions.		[6x(5+5)=60]			
1.	a)	What do you mean by hardness of water? How can y remove the temporary hardness of water?	/ou	[2+3]	
	p)	How nitric acid is manufactured by Ostwald's proces Explain with diagram?	ss?	[5]	
2		How is ammonia manufactured by Haber's process Explain what happen when excess ammonia reacts we chlorine.	vith	[4+1]	
	b)	Define acid rain. Explain oxides of carbon as pollutants	ı.np	[5]	
3.	a)	Explain contact process of manufacture of Sulphuric a with labelled diagram.	acid	[5]	
	b)	How can you prepare hydrochloric acid in laborator Explain with figure. Website:- https://www.a	A 1000	[5] .com.	.np
4.	a)	What do you mean by vital force theory? Why is it fai now?	led	[4+1]	
	b)	What is meant by nitrogen fixation? Describe nitrogen cycle with flow sheet diagram.	the	[4+1]	
5.	a)	What do you mean by alkali metals? Explain properties of sodium.	the	[5]	
Di .	b)	Define allotropes. What are the properties of calcium alkaline earth metal?	as	[5]	
6.	a)	Explain the properties of methane in brief.		[5]	
	b)	Write short notes: (Any Two)	[2x2	.5=5]	
		i) Homologous series ii) Functional group			
		iii) Polymer iv) Aeromatic compound	ds		

## Good Luck!

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