		Chemistry (New Scheme) Time: 2:40 Hours			(INTER PART-II) 4194(1) SUBJECTIVE		Paper: II
1	N	ote: Secti	on I is compulsory. A	ttempt any THREE (3) questions from	Section II.	Marks: 68
					(ON - I)		
	2.	W. A. A. A. Bressen					$(2 \times 8 = 16)$
		i. V	Vhy the values of the	ionization energy de	creases down the	group?	(2 / 5 - 10)
		ii. Why ZnO is regarded as amphoteric oxide?					
		iii. V	Vhy lime water turns	milky with CO2 but	becomes clear w	rith excess of CO2?	
		iv. H	low boric acid is pre	pared on commercial	scale from Coler	nanite?	
		v. V	Vhy Aluminium shee	ts are said to be corre	osion free?		
		vi. V vii. H	vny CO ₂ is a gas at r	oom temperature whi	le SiO ₂ is a solid	?	
			low an aqua regia dis		s services and an element	111110	
		ix. H	low bot concentrated	acid is converted into H ₂ SO ₄ reacts with	Cu and Ag mo	nosphoric acid?	
		x. N	ame four macronutri	ients and also mention	The acre range	idis!	
		xi. N	ame any four parts of	of paper making mach	ine.	or then requirement.	
				cygen Demand (COD		asured?	
	3.	Write s	short answers to an	y EIGHT questions.	,	abaroa,	$(2 \times 8 = 16)$
	i. What is "Catalytic Cracking"?						(= 0 = 20)
	ii. Compounds containing double bonds are more reactive, give reason.iii. Write mechanism for the addition of halogen in alkene.					e reason.	
				acetylene and n-hex			
		v. Draw structural formulas of p-nitrotoluene and p-Dibenzylbenzene.					
		V1. S1	vi. Starting from suitable Grignard reagent prepare ethane and ethyl cyanide.				
		vii. Write reaction to prepare tetra ethyl lead and Nitro ethane.					
		viii. Prepare ethanol from starch. ix. Convert ethanol to Iodoform.					
					aid		
		x. Write strecker synthesis to prepare amino acid.xi. What is glacial acetic acid.					
		xii. Write structural formula of Lysine and Valine.					
	4.	Write s	hort answers to any	v SIX questions.		-	$(2\times 6=12)$
		i. What is an "Iodized Salt"?					(2 × 0 = 12)
			hy iodine has metall				
		iii. Na	ame any two method	s to manufacture blea	ching powder. A	Iso give reaction for	this.
		iv. Na	ame different forms	of Iron and mention v	which is the pures	st form?	
		v. Describe Tollen's test for the identification of aldehydes.					
	vi. Write any four uses of formaldehyde.						
	vii. Define saponification number with a suitable example.						
	viii. Write two points of difference between a fat and oil.						
ix. Differentiate with at least two points between "Amylose" and "Amylopectin".							54
	20			(SECTIO			
	5.	(a)		n Energy" as periodic			4
		(b)		differences between			4
	6.	(a)		"Corrosion"? Explain			4
		(p)	What is "Acid Rai	n"? Give detailed eff	ects of acid rain of	on environment.	4
	7.	(a)	Write down any fo	our important features	of organic comp	ounds.	4
		(b)		mulas of following co	ompounds:		4
			 i) m-chlorobenz 		ii) 2, 4, 6 tri		
	_	()	iii) p-hydroxyben		iv) m-nitrop	henol	
-	8.	(a)		verted into following			4
		. /6\		ii) Chloroprene	iii) Acryloni		
		(b)		g compounds accord			4
			i) H ₃ C - C ₂ H - (And the second s	ii) H ₃ C - O		
			iii) $H_5C_2 - CH - CH$	OII	iv) (H ₃ C) ₃ C	OH	
			CH ₃				
4	9.	(a)	Discuss "Aldol Co	ndensation" with med	hanism.		4
		(b)		le as a starting materi		prepare the following	
			compounds:	_	* · · · · · · · · · · · · · · · · · · ·	→ manufacture relience de la	
			i) n-Butane	ii) ethyl alcohol	iii) propanoio	acid iv) ethene	