me: 20	ry (New Scheme) Minutes	(INTER PART-II) 419-(III) OBJECTIVE Code: 8486 ch objective type question as A, B, C and D. T		Group: II	Paper: I Marks: 17		
th cir an	rcles will result in zero ma od leave other blank.	rk in that question. Attemp	pt as many questions	as given in objective t	think is correct, fil illing two or more ype question pape		
1.	to a rigid solid is called a A) fibre B) variety C) 1						
2.	Which set of hub			D) pol	yamide resin		
,. ~.	A) Sp	d orbitals has planar t B) Sp ²	riangular shape? C) Sp ³	D) 10	3		
3.	The electrophile w			D) dSp	o"		
٥.	A) H ₂ SO ₄	sed in aromatic sulpho B) HSO ₄ ⁻¹	nation is: C) SO ₃	D) SO:	+		
4.	Which one of the f	llowing enzymes brings about the		D) 30 ₃			
	A) urease	B) lipase	ngs about the hyd: C) maltase	rolysis of fats? D) zym	nase		
5.	Vinyl acetylene co	mbines with HCl to fo	orm.	2) 2y n			
	A) polyacetylene	B) benzene	C) chloropre	ne D) divi	nul costal		
6.	Formula of Epsom	salt is:	-, amoropie	iie D) divi	nyl acetylene		
	A) MgSO ₄ .7H ₂ O	B) MgSO ₄	C) MgCO ₃	D) Cal	1g ₃ (SiO ₃) ₄		
7.	Which of the follow A) Tollen's reagent	llowing reagent will react with both aldehydes and Koton					
8.	Which metal is used A) iron	d in the thermite proce B) copper		ectivity:			
9.	Keeping in view the size of atom, which order is correct one						
	A) $Mg > Sr$	B) Ba > Mg	C) Lu > Ce	D) Cl>	I		
10.	of the state of th						
	 A) atmosphere 	B) biosphere	C) lithosphere	D) hydro	osphere		
11.	Group VI B of transition elements contains:						
	A) Zn, Cd, Hg	B) Fe, Ru, Os	C) Cr, Mo, W	D) Mn, 1	Γe. Re		
12.	Ammonium Nitrate	Fertilizer is not used f	or which crop?	, =,	,		
	A) cotton	B) wheat	C) sugar cane	D) paddy	v rice		
13.	Which compound is	more soluble in water		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		
	A) C ₂ H ₅ OH	B) C ₆ H ₅ OH	C) CH₃COCH	D) n-He	canol		
14.	Which halogen will A) I ₂	react spontaneously w B) Br ₂	ith Au _(S) to produ C) Cl ₂				
15.	The brown gas form	ed, when metal reduce B) N ₂ O ₃	HNO ₃ to:				
16.	100000		C) NO ₂	D) N ₂ O ₄			
10.	When CO ₂ is made to react with ethyl magnesium Iodide, followed by acid hydrolysis product formed is:		ltolysis, the				
	A) propanoic acid	B) ethanoic acid	C) propane	D) propag	nal		
17.	Which reagent is use A) H ₂ /Ni	d to reduce carboxylic B) H ₂ /Pt	group to an alcol C) NaBH4	ol: D) LiAlh	I 4		
4							

Cary-P-11-12-19

Chemistry (New Scheme) (INTER PART-II) 419... Group: II Paper: II Time: 2:40 Hours SUBJECTIVE Marks: 68 Note: Section I is compulsory. Attempt any THREE (3) questions from Section II. (SECTION - I) 2. Write short answers to any EIGHT questions. $(2 \times 8 = 16)$ Define "Covalent Hydride" with one example. i. ii. Oxides of non-metals show acidic behavior, give reason. iii. Why 2% of gypsum is added in cement? iv. Aluminium is not found in free state, give reason. CO2 is gas at room temperature while SiO2 is a solid, give reason. V. vi. What is "Borax"? Write two reactions in which H₂SO₄ acts as oxidizing agent. Vii. viii. Write two differences between Oxygen and Sulpher. Write two methods for the preparation of NO2. ix. What are phosphatic fertilizers? X. xi. What do you mean by "Setting of Cement"? What is role of chlorofluoro carbons in "Destruction of Ozone"? xii. 3. Write short answers to any EIGHT questions. $(2 \times 8 = 16)$ Define the term "Tautomerism" with an example. Give name and reaction of alkenes which is used to indicate the position of double bond How is ethyne converted into: a) Ethanal b) Benzene iv. How is benzene converted into m-chloronitro-benzene? How will you convert phenol into benzene? vi. How is ethene converted into 1-butanol? Give the reaction which is more useful for the preparation of alkyl chlorides. viii. Give the structural formulae of following compounds: a) Glycerol b) Lactic acid How is ethyl iodide prepared from diethyl ether? ix. What is "Peptide Linkage"? X. xi. How is amino acid prepared by strecker synthesis? How is ethanol converted into ethanoic acid? Write short answers to any SIX questions. $(2 \times 6 = 12)$ Why HF is weaker acid than HCl? ii. Justify that Cl₂O₇ is the anhydride of per-chloric acid. iii. Complete & balance the following equations: i) $XeF_4 + NH_3 \Rightarrow$ ii) $XeF_6 + SiO_2 \Rightarrow$ iv. Define "Paramagnetism & Diamagnetism". V. Distinguish chemically between "Acetone" and "Ethyl alcohol". vi. Convert methanol to ethanol. Cellulose is not digested by human intestinal track justify. viii. Point out difference between "Cellulose" and "Starch". How radiations affect the activity of enzyme? (SECTION - II) 5. (a) State Mendeleev's periodic law and write down the improvements made in the 4 Mendeleev's table. (b) Write down eight points in which lithium differs from other elements of group IA. 4 6. Explain the following with two examples each: 2+2 i) Ligand ii) Co-ordination number What is smog? Explain the pollutants which are main cause of photochemical smog. (b) 1+3 7. (a) What is chain isomerism? Draw all the possible skeletal formulae of hexane. 1+3 Write two reactions for each to justify benzene as saturated and as unsaturated (b) 2+2 compound. Write Kolbe's method of preparation of ethyne along with its mechanism. 8. (a) How does ethanol react with: (b) PCl₃ i) ii) SOCL iii) Na CH₃COOH 9. How C2H5MgBr reacts with the following: ii) CO2 iii) HCHO iv) CH3COCH3 Write one laboratory and one industrial method for preparation of acetaldehyde. 322-419-21000 24/-12- CL-19