Paper Code Number: 4485		2018 (A) INTERMEDIATE PART-II (12 th		Roll No		
					CHE	MISTRY PAPI
TIME	ALLOWED: 20	Minutes	OBJECTIVE	MAXIMUM MARKS:		
think in Cuttinguestic	is correct, fill that b ig or filling two or n ons as given in obje UBBLES are not fil	ubble in front of that q nore bubbles will result ctive type question pap	uestion number. Us t in zero mark in tha er and leave others	B, C and D. The choice which you se marker or pen to fill the bubbles at question. Attempt as many blank. No credit will be awarded in GOBJECTIVE PAPER.		
(1)	Ether shows the phenomenon of:-					
	(A) Position isomerism (B) Functional group isomerism (C) Metamerism (D) Cis-trans isomerism					
(2)	Vinyl acetylene combines with $HC\ell$ to form:-					
	(A) Polyacetylene	(B) Benzene	(C) Chloroprene	(D) Divinyl acetylene		
(3)	can be used as a catalyst in Friedel-Craft's reactions.					
	(A) $A\ell C\ell_3$	(B) HNO ₃	(C) BeCl ₂	(D) NaCl		
(4)	is not a nucleophile.					
	(A) H_2O	(B) H_2S	(C) BF ₃	(D) NH ₃		
(5)	According to Lewis concept; ether behaves as:-					
	(A) Acid	(B) Base (C) A	Acid as well as a base	(D) Electrophile		
(6)	The Carbon atom of	f a Carbonyl group is:-				
	(A) sp hybridized	(B) sp ² hybridized	(C) sp ³ hybridized	(D) dsp ² hybridized		
(7)	Acetic acid can be	manufactured by:-	36			
	(A) Distillation	(B) Fermentation	(C) Ozonolysis	(D) Esterification		
(8)	The main pollutant	t of leather tanneries in t	he waste water is due	to the salt of:-		
	(A) Lead	(B) Chromium (VI)	(C) Copper	(D) Chromium (III)		
(9)	The reaction between a fat and NaOH is:-					
	(A) Esterification	(B) Hydrogenolysis	(C) Fermentation	(D) Saponification		
(10)	Phosphorus helps	in the growth of:-				
	(A) Root	(B) Leave	(C) Stem	(D) Seed		
(11)	is secondar	y pollutant.				
	(A) Carbonic acid	(B) CO ₂	(C) SO ₂	(D) <i>CO</i>		
(12)	Keeping in view the size of atoms, the correct order is:-					
	(A) $Mg > Sr$	(B) $Ba > Mg$	(C) $Lu > Ce$	(D) $C\ell > I$		
(13)	The mineral CaSO ₄ .2H ₂ O has general name of:-					
	(A) Gypsum	(B) Dolomite	(C) Calcite	(D) Epsom Salt		
(14)	elements is	not present abundantly	in earth's crust.			
	(A) Silicon	(B) Aluminium	(C) Sodium	(D) Oxygen		
(15)	Oxidation of NO	in air produces:-				
	(A) N_2O	(B) N_2O_3	(C) N_2O_4	(D) N_2O_5		
(16)	The anhydride of $HC\ell O_4$ is:-					
	(A) <i>ClO</i>	(B) $C\ell O_2$	(C) ClO ₃	(D) $C\ell_2O_7$		
(17)	Co-ordination number of Pt in $[PtC\ell(NO_2)(NH_3)_4]^{2-}$ is:-					
		(B) 4	(C) 1	(D) 6		
	(A) 2	(D) 4	(0) 1	(2)		

	2018 (A)	Ro	oll No:
INTER (NE	MEDIATE PA W SCHEME)	RT-II (12 th CI GROUP-I	LASS) MIN-91-12-
ours	SUBJECTIV		MAXIMUM MARKS: 68

NOTE: - Write same question number and its part number on answer book, as given in the question paper.

CHEMISTRY PAPER-II

(i) Water

(ii) Ammonia

(iii) Alcohol

(b) Explain Cannizzaro's reaction with suitable examples and mechanism.

(iv) CO,

R.23-2018(A)-23000

(MULTAN)

TIME ALLOWED: 2.40 Hours

SECTION-I 2. $8 \times 2 = 16$ Attempt any eight parts. Define Atomic Radius. Why Atomic Radius of Alkali metals increases in group of Periodic table? (i) What are Halides? Give their types. (ii) What is function of Ca in plant growth? (iii) (iv) What is the formula of Red Lead? Give its principle uses. (v) What is the effect of heat on the Orthoboric Acid? What is the Chemistry of the Borax-bead Test? (vi) Orthophosphoric acid is a weak tribasic acid. Prove it giving reactions with NaOH. (vii) (viii) Complete the following chemical equations:-(a) $H_2S + NO_2 \longrightarrow$ (b) $KI + NO_2 \longrightarrow$ (ix) Concentrated H_2SO_4 act as a dehydrating agent. Give two examples. What is meant by Biochemical Oxygen Demand? (x) Define Smog. Give the composition of Photochemical Smog. (xi) (xii) What is an Oil Refinery? Mention oil refineries in Pakistan. 3. Attempt any eight parts. Name the following complexes according to IUPAC System:-(i) (a) $Cr(OH)_3(H_2O)_3$ (b) K_2 $Pt(C\ell)_6$ (ii) Define the term coordination number with an example. How Ethylene is converted into? (a) Ethylene Oxide (b) Ethylene glycol (iii) How will you convert 1 - propanol into 1 - chloro - 2 - propanol? (iv) Write down the structural formulae of following compounds:-(v) (a) Benzophenone (b) Acetophenone (vi) Which method is more useful for the preparation of ethyl chloride? Give its chemical reaction. Write down the structural formulae of following compounds:-(vii) (b) Lactic acid (a) Glycerol (viii) Ethyl alcohol is a liquid while methylchloride is a gas? Justify. How will you distinguish between Acetaldehyde and Benzaldehyde? (ix) (x) Discuss the reaction of an aldehyde with Tollen's reagent. What are Zwitter Ions? (xi) What is a Peptide Bond? Write down formula of a dipeptide? (xii) $6 \times 2 = 12$ Attempt any six parts. 4. What are Thermosetting Polymers? Give an example. (i) (ii) Define Saponification number with an example. (iii) Write four importances of Lipids. (iv) What are Micronutrients? Describe the composition of a good Portland cement. (v) (vi) How is the wet sheet of paper dried in paper industry? Why is HF a weaker acid than $HC\ell$? (vii) (viii) Write the reactions of bleaching powder with (a) NH_1 (b) CO, Give two uses of Argon. (ix) **SECTION-II** $8 \times 3 = 24$ NOTE: - Attempt any three questions. Explain the position of Hydrogen in 1 A and VII A groups and explain its similarities and dissimilarities with those groups. 4 What is the role of Gypsum in Agriculture and Industry? (b) Explain the following properties of Transition metals:-6.(a)(i) Paramagnetism (ii) Colour Explain the process of incineration of industrial waste. (b) Define Alicyclic compounds and Aromatic compounds with one example in each case. 7.(a) (b) Predict the major products of bromination of the following compounds:-(ii) Benzoic acid (iii) Benzaldehyde (iv) Phenol (i) Toluene How will you bring about the following conversions? (i) Methane to Ethane (ii) Acetic acid to Ethane (b) How is Methyl alcohol obtained on large scale from water gas? Draw diagram also. 9.(a) Write reactions of ethyl magnesium bromide with.-