Roll No. LHK-G2-12-18 (To be filled in by the candidate)				
CHEMISTRY (Academic Sessions 2015 – 2017 & 2016 – 2018) 218-(INTER PART – II) Time Allowed: 20 Minutes				
Q.PAPER – II (Objective Type) GROUP – II Maximum Marks: 17				
PAPER CODE = 8484				
Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling				
two or more circles will result in zero mark in that question.				
1-1	Which is the weakest of			
1800000	(A) Br ₂	(B) Cl ₂	(C) F ₂	(D) I ₂
2	Which one of the following species is an electron releasing:			
1 2	0			
	(A) - CHO	(B) $-C-R$	(C) - OH	(D) - COOH
3	Which one of the follo	wing nitrogeneous base		
	(A) Thiamine	(B) Cytosine	(C) Adenine	(D) Uracil
4	Fungicides are used to	:		
	(A) Control the growth of fungus (B) Kill insects			
İ	(C) Kill plants		ill herbs	
5	Which one of the follo	wing oxides is more aci	idic :	
	(A) MnO	(B) Mn_2O_3	(C) MnO ₂	(D) Mn_2O_7
6	, ,	owing compounds will n		
	(A) Ethanol	(B) Acetaldehyde	(C) Butanone	(D) 3-Pentanone
7	Bauxite is an ore of:	(b) Acciditelyde	(c) Dutalione	(2) 7 7 7 7 7 7
('		(B) Al	(C) Mg	(D) Ca
8	(A) B Which one of the follo	owing compounds is mo		
	(A) H ₅ C ₆ OH	(B) H ₂ O	(C) H ₅ C ₂ OH	(D) H ₃ CCOOH
9		ble water the coagulant		()
1				(D) Barium sulphate
10	(A) Nickel sulphate	nolecular formula C_5H_1		
10		1921 1923		1
	(A) 2	(B) 3	(C) 4	(D) 5
11	Formula of sodium be			D N DO 1017 O
	(A) $Na_2B_4O_7$	(B) Na_2BeO_2	(C) BeONa	(D) $Na_2B_4O_7.10H_2O$
12	Addition of water to acetylene takes place in presence of:			
	(A) Ni	(B) $HgSO_4/H_2SO_4$		(D) Cu
13	Which one of the follo	owing is a non-typical to	ransition element:	
Ì	(A) Cr	(B) Mn	(C) Cd	(D) Fe
14		m bromide reacts with	HCHO followed by aci	d hydrolysis, the product
	formed is:			
	(A) Ethanol	(B) 1 – Propanol	(C) Ethanoic acid	(D) 2 – Propanol
15	The lowest ionization	energy is possessed by		
	(A) P	(B) N	(C) Sb	(D) As
16		acid is used for season		(D) Determined
	(A) Formic acid	(B) Acetic acid	(C) Benzoic acid	(D) Butanoic acid
17	Ammonium nitrate fe	ertilizer is not used for w		(D) D 11
	(A) Cotton	(B) Wheat	(C) Sugar cane	(D) Paddy rice

(To be filled in by the candidate) (Academic Sessions 2015 – 2017 & 2016 – 2018) CHEMISTRY 218-(INTER PART – II) Time Allowed: 2.40 hours PAPER - II (Essay Type) GROUP - II Maximum Marks: 68 SECTION - I 2. Write short answers to any EIGHT (8) questions: 16 (i) Why is the oxidation state of noble gases usually zero? (ii) Why does the ionization energy decrease down the group and increase along the period? (iii) Why is the aqueous solution of Na_2CO_3 alkaline in nature? (iv) Write two reactions of preparation of borax. (v) What is chemical garden? (vi) Define semiconductors. Write its two properties. (vii) Write two reactions of preparation of nitrous acid. (viii) What is the action of heat on orthophosphoric acid? Write chemical equation also. (ix) Write four physical properties of sulphuric acid. (x) Name the four components of environment. (xi) What is meant by dissolved oxygen (DO) to check the quality of water? (xii) Write the destructive distillation of coal. 3. Write short answers to any EIGHT (8) questions? 16 (i) $KMnO_4$ acts as oxidizing agent, show with two examples. (ii) What are chelates? Give one example. (iii) What is the statement of Markownikov's rule? Also give example. (iv) What happens when vic-dihalide is treated with Zn-dust? (v) What happens when benzene is burnt in free supply of air? Write equation. (vi) Describe the best method for preparation of alkyl halides. (vii) How phenol can be converted into benzene? (viii) How does phenol react with bromine water? (ix) What are aldehydes and ketones, give example? (x) How formaldehyde is prepared on large scale? (xi) How carboxylic acid can be obtained from alkene? (xii) Why does mostly carboxylic acid exist as dimers? 4. Write short answers to any SIX (6) questions: 12 (i) Why is cement named as Portland cement? (ii) Write about digestion process for preparation of pulp. (iii) Define DAP. Write reaction for its preparation. (iv) What is difference between fat and oil? (v) Write note on condensation polymer. (vi) Define iodine number and acid number. (Turn Over)

(vii) How NaOH reacts with $C\ell_2$ in hot and cold state?

LHR-92-12-18

- (viii) What is iodized salt? Write its function.
- (ix) Give reason oxidation power of halogens increases $F_2 > C\ell_2 > Br_2 > I_2$

(a) Define ionization energy. Give its units. Discuss the effects of three factors on

SECTION - II

e: Attempt any THREE questions.

- the ionization energy values of elements.

 (b) Explain the peculiar behaviour of beryllium.

 (a) Describe the manufacture of wrought iron from cast iron.
- (b) Describe the natural and human sources of nitrogen oxides and sulphur oxides.
- (a) Differentiate between homocyclic and heterocyclic compounds with two examples each.
- (b) Write down two reactions in which benzene behaves as saturated hydrocarbon and two reactions in which benzene behaves as unsaturated hydrocarbon.
- (a) What are rules for naming alkynes? Explain with suitable examples.
- (b) Write down Dow's method for preparing phenol. What is action of following on phenol: 4

 (i) Bromine water. (ii) HNO₃ at different temperatures.
- (a) How will you bring about the following conversions from an alkyl halide:

 (i) Diethyl ether (ii) Ethyl thioalcohol (iii) Ethyl acetate (iv) Nitroethane
- (b) What type of aldehydes give Cannizzaro's reaction? Give its reaction mechanism.

228-218-II-(Essay Type)-18500

4