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_	1221 Warning:- Please write y	our Roll No.	in the space p	Sig o		nt
	(Inter Part – II) (Sess	sion 2017-19	Group - I		er (II)	
	Chemistry (Objective) \$40	)-1-41	ER CODE			Marks:- 17
	Time Allowed: - 20 minutes			P C and D The choice	e which v	ou think is correct; fill
	Time Allowed:- 20 minutes  Note:- You have four choices for each that circle in front of that question numbers.	h objective type	ker or nen to fil	I the circles. Cutting or	filling tv	vo or more circles will
	that circle in front of that question nuresult in zero mark in that question. W	rite PAPER C	ODE, which is p	orinted on this question	paper,	on the both sides of the
	result in zero mark in that question. W Answer Sheet and fill bubbles accordi	ngly, otherwise	the student will	oc responsible res and	ituation. I	Use of link Remover or
				V.1		
	1) Which of the following deriv	vative cannot	be prepared d	or Education acetic a	(D)	Acetic anhydride
	(A) Acetamide	(B) Acetylci	nioride (	c) Elliylacetate	(D)	Accirc ainifariae
	2) For which crop ammonium i	nitrate fertiliz	er is not used	C) Commanda	(D) I	Paddy rice
	(A) Cotton	(B) Wheat	(	C) Sugar cane	(D) 1	addy xxv
	3) Mark the correct statement.	(m) 3.6 : 111	·1	C) Metallic characte	er (D)	Metallic character
	(A) Metallic character	(B) Metallic	character (	remains the same	e (2)	remains the same
	increases down the		s from left	down the group	_	from left to right in
	group	to right	in a period	TOWN the group		period
			•	ANTE		•
	4) Down's cell is used to prepa	re (D) Sodium	metal	Sodem acarbona	(D)	Sodium hydroxide
	(A) Sodium carbonate	(B) Soutuil	ilictai (	C) Oddiaiii Diodi. 2011		
	5) Which element forms ion w	ith charge +3	(	C) Si	(D)	C
	(A) Be	(B) Al				
	6) Among group VA elements	(B) N	cuonegative (	(C) P	(D)	AS
	(A) Sb			1. A.		
	7) Which is the strongest acid	(B) HClO <sub>3</sub>	1 dillon	City	(D)	HClO <sub>4</sub>
	(A) HClO	(B) 11ClO3				
	8) The anhydride of HClO <sub>4</sub> is	(B) ClO <sub>3</sub>	(	(C) Cl <sub>2</sub> O <sub>3</sub>	(D)	Cl <sub>2</sub> O <sub>7</sub>
	<ul><li>(A) ClO<sub>2</sub></li><li>9) Which of the following is a</li></ul>	non typical t				
		(B) Mn		(C) Zn	(D)	Fe
	(A) Cr 10) Select from the following the	ne one which			×	
	(A) CH <sub>3</sub> -CH <sub>2</sub> -Br	(B) CH <sub>3</sub> -C	H <sub>2</sub> -OH	(C) H3C-O-CH3	(D)	H <sub>3</sub> C-COOH
	11) $\beta$ , $\beta'$ – dichloroethyl sulphi	de is commo	nly known as			
	(A) Mustard gas	(B) Laughi	ng gas	(C) Phosgene gas	(D)	Bio-gas
	12) Which one of the following	groups is m				
	(A) -OH	(B) -NH <sub>2</sub>		(C) -NO <sub>2</sub>	(D)	-OCH <sub>3</sub>
	13) Which one of the following		leophile?			
	(A) $H_2O$	(B) H <sub>2</sub> S	•	(C) BF <sub>3</sub>	(D)	$NH_3$
	14) Methyl alcohol is not used					
		An ant	i-freezing	(C) A substitute for	(E	) Denaturing agent
	(A) A solvent	(B) agent		petrol	(-	,
	15) Formalin is				c (D)	(0.0/ salution of
	(A) 10% solution of	(B) 20 % s	olution of	(C) 40 % solution o	. ,	60 % solution of
	formaldehyde in	formal	dehyde in	formaldehyde in	1	formaldehyde in
	water	water		water		water
	16) Acetone reacts with HCN t	to form a cya	nohydrin is an	example of	" (D)	Muoloophilic
	(A) Electrophilic	(B) Electro	pnilic	(C) Nucleophilic addi	tion (D)	Nucleophilic substitution reaction
	addition reaction		ution reaction	reaction		Substitution reaction
	17) Which acid is used in the n	nanufacture	of synthetic fil	ore.	(D)	Dhahalia aaid
	(A) Malonic acid	(B) Acetic	acid	(C) Oxalic acid	(D)	) Phthalic acid
1279 1221 ALP 18000 (3)						
			(275)	N		
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Warning:- Please, do not write anything on this question paper except your Roll No. (Session 2017-19 to 2019-21) 1221 (Inter Part - II) Paper (II) (Group I) Chemistry (Subjective) Maximum Marks: 68 Time Allowed: 2.40 hours Section ----- I  $8 \times 2 = 16$ Answer briefly any Eight parts from the followings:-The hydration energies of the ions are in the following order. Why?  $AI^{+3} > Mg^{+2} > Na^{+1}$ Lanthanide contraction controls the atomic sizes of elements of 6th and 7th periods. (i) (ii) What is the effect of heat on CaSO<sub>4</sub>.2H<sub>2</sub>O? The reaction of alkali metal oxide with water is an acid-base reaction and not an oxidation reduction reaction, why? (iii) (iv) How carbon differs from remaining members of group IV-A elements. What are the common properties of group IV-A elements. (vii) Give two uses of Boric acid. (v) (vi) Give two reactions for the preparation of Dinitrogen oxide (N2O). (viii) Give equation to describe the reaction of NO2 with H2S and KI. What is meant by prilling? (xi) Describe the composition of a good portland cement. (ix) What are essential nutrient elements and why these are needed for plant growth? (x) (xii)  $8 \times 2 = 16$ Answer briefly any Eight parts from the followings:-Why HF is weaker acid than HCl? (ii) Draw Structural formula of OF<sub>2</sub> and O<sub>2</sub>F<sub>2</sub>. (i) What is the oxidation state of chlorine in HClO<sub>4</sub> and HClO? (iii) What is Paramagnetism? Give example. (v) Discuss Cathode Coating. Draw resonance Structures of Benzene. (vii) Convert n-Hexane into Benzene. (iv) What is the composition of formalin? (ix) How would you differentiate between methanol and Ethanol? (vi) (viii) How Acetic Acid is prepared from Acetylene? (x) Name the Esters which produce Jasmine and Pineapple flavours. (xi) "Boiling point of Carboxylic Acid is relatively high" Justify (xii)  $6 \times 2 = 12$ Answer briefly any Six parts from the followings:-Define functional group, Give one example. (i) Differentiate between catalytic and steam cracking. (ii) Discuss reactivity of  $\pi$  – bond. (iii) Give mechanism of bromination of ethene. (iv) Write industrial preparation of ethyne. (v) Write any four differences between E<sub>1</sub> and E<sub>2</sub> reactions. (vi) Define electrophile and nucleophile. (vii) Discuss the denaturing of alcohol. (viii) How is Bakelite prepared? Give reaction. (ix) Section ----- II  $(8\times3=24)$ Note: Attempt any three questions. (a) Define ionization energy, on what factors it depends. Give its periodic trend. (b) Describe Commercial preparation of sodium metal by Down's Cell. (a) H<sub>2</sub>SO<sub>4</sub> is a dehydrating agent and oxidizing agent, prove this truth by giving two examples of each. (b) Describe following general characteristics of transition elements. (i) Melting and boiling point. (ii) Covalent and ionic radii Explain the Structures of Ethane and ethyne based on hybridization. (a) What is Cannizarro's reaction? Give its mechanism. Give any two methods of preparation of alkene (ethene) and also give two oxidation (a) reactions of ethene. Differentiate between S<sub>N</sub>1 and S<sub>N</sub>2 reactions. 9. (a) Explain the comparison of reactivities of Alkanes, Alkenes & Benzene. (b) How will you convert phenol into (i) Benzene (ii) Picric Acid (iii) Cyclohexanol (iv) Bakelite 1280 -- 1221 ALP -- 18000

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