Roll No.		To be filled in by the c	andidate)
	(Academic Sessions 2018 – 2020 to		Allowed: 20 Minutes
CHEMIS		LHR-G2-22 Maxi	
Q.PAPER	R – II (Objective Type) GROUP – II PAPER CODE = 8		illum Mund . 17
Note: F	our possible answers A. B. C and D to each question a	are given. The choice v	which you think is correct,
fi	ill that circle in front of that question with Marker of	r Pen ink in the answer	-book. Cutting or filling
	wo or more circles will result in zero mark in that que	stion.	
1-1	The anhydride of $HC\ell O_4$ is :		
	(A) $C\ell O_3$ (B) $C\ell O_2$	(C) $C\ell_2O_5$	(D) $C\ell_2O_7$
2	During nitration of benzene, the active nitrating	agent is:	
			(D) HNO ₃
	(A) NO ₃ (B) NO ₂ ⁺	(C) NO ₂	
3	Which one of the following nitrogenous base is		
	(A) Cytosine (B) Adenine	(C) Thiamine	(D) Uracil
4	Ecosystem is a smaller unit of:		
	(A) Lithosphere (B) Hydrosphere	(C) Atmosphere	(D) Biosphere
5	Keeping in view the size of atoms which order	is the correct one:	20
	(A) Mg > Sr (B) Ba > Mg	(C) $Lu > Ce$	(D) Cl>I
6	Which of the following reagents will react with		etones :
	(A) Grignard reagent (B) Tollen's reag		
7	(C) Fehling's reagent (D) Benedict's re Tincal is a mineral of:	agent	
1 '	and the second s	(C) Si	(D) C
	(A) Al (B) B Which enzyme is not involved in fermentation		(B) C
8	The second secon		(D) I
	(A) Diastase (B) Zymase	(C) Urease	(D) Invertase
. 9	The main pollutant of leather tanneries in the w	aste water is due to :	
	(A) Lead (B) Chromium (VI)	(C) Copper	(D) Chromium (III)
10	Linear shape is associated with which set of hy		
	(A) sp (B) sp^2	(C) sp ³	(D) dsp ²
11	Which ion will have the maximum value of hea	nt of hydration:	
	(A) Na^+ (B) Cs^+	(C) Ba^{++}	(D) Mg ⁺⁺
12	Vinyl acetylene combines with HCl to form:		
1.2		(0) 011	(D) D' ' 1 - 4 1
	(A) Polystyrene (B) Benzene	(C) Chloroprene	(D) Divinyl acetylene
13	The colour of transition metal complexes is due		
	(A) d-d- transition of electrons (B) Paran	magnetic nature of tra	nsition elements
		of s-electrons	
14	In primary alkyl halides, the halogen atom is at	tached to a carbon wh	nich is further attached
	to how many carbon atoms:		
	(A) Two (B) Three	(C) One	(D) Four
15	Which catalyst is used in contact process:		
1	(A) Fe_2O_3 (B) V_2O_5	(C) SO ₃	(D) Ag ₂ O
16	Acetic acid is manufactured by:		
	(A) Distillation (B) Fermentation	(C) Ozonolysis	(D) Esterification
17	Phosphorous helps in the growth of:	(-)	
1		(C) Stem	(D) Seed
L		28-222-II-(Objective	
			Sus

SECTION – I 2. Write short answers to any EIGHT (8) questions: (i) Lanthanide contraction controls the atomic sizes of elements of 6th and 7th periods. Give reason. (ii) Explain the variations in melting points along the short periods. (iii) Why is the aqueous solution of Na2CO3 alkaline in nature? Give reaction only. (iv) What happens when LiOH is heated to red hot? Give reaction. (v) How does boric acid react with: (a) Ethyl alcohol (b) Na2CO3 (vi) Give chemistry of borax-bead test. (viii) Name the allotropes of phosphorus. How red phosphorus is prepared? (viii) Give the reaction of phosphorus with: (a) Thionyl chloride (b) Cl2(g) (ix) Briefly discuss the property of paramagnetism in transition elements compounds. (x) What are: (a) Interstitial compounds. (b) Substitutional alloys. (xi) Briefly discuss the digestion process in paper manufacturing. (xii) Discuss the reactions taking place in first 24 hours of setting of cement. 3. Write short answers to any EIGHT (8) questions: (i) Why HF is weaker acid than HCl? (ii) What are freons and tellon? (iii) Discuss carbonization of coal. (iv) Define functional group. Give one example. (v) Why is sigma bond intert? (vi) Discuss hydroxylation of ethene. (vii) How is water added to propyne? Write reaction. (viii) How are tetramethyl and tetraethyl lead prepared? (ix) How can 1-chloropropane be converted to propene? (x) Define polysaccharides, also give example. (xi) Differentiate between DNA and RNA. (xii) What is hardening of oils? Give reaction. 4. Write short answers to any SIX (6) questions: (i) What are polycyclic aromatic hydrocarbons? Give two examples. (iii) Convert phenol into: (a) 2, 4, 6 tribromophenol (ii) Cyclohexanol. (iv) Write equations for the preparation of ethanol by the fermentation of Molasses. (v) What is iodoform test?	Roll No	(Academic Sessions 2018 – 2020 to 2020 – 2022) IISTRY 222-(INTER PART – II) Time Allowed : 2.40 hour	rs			
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(v) What is iodoform test?	(iii)	Convert phonor mile . (w) =, .,				
	(iv)					
	(v)	What is iodoform test? (Turn Over)			

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- 4. (vi) Convert acetylene into acetic acid.
 - (vii) Write down the structural formulas of Glycine and Alanine amino acids.
 - (viii) How detergents are threat to aquatic animal life?
 - (ix) Write down the four harmful effects of acid rain.

SECTION - II

Note: Attempt any THREE questions.

5. (a) Write down two points of similarities and two points of differences between hydrogen and halogen (VII A) (b) Give one method for the preparation of H_3BO_3 . How does it react with: (i) NaOH (ii) Na_2CO_3 (iii) C_2H_5OH 6. (a) Discuss hard finish plasters and cement plaster. (b) How steel is manufactured by Bessemer process. 7. (a) Discuss structure of ethyne on the basis of sp-hybridization. (b) Convert ethyl bromide into: (iii) Ethyl alcohol (iv) n-Butane (i) Ethane. (ii) Propane. 8. (a) Give the reaction of ethene with (i) H_2SO_4 (ii) O₃ (iii) HOX (b) Describe the various tests for identification of carboxyl compounds (Any four). 9. (a) Write the mechanism of nitration and sulphonation of benzene. (b) Describe the two reactions of alcohol and phenol in which "O - H" bond break. Millic

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