

		L.K.No. 1309	Paper Code No. 8487
Chemistry	(D)	1-tor A = 2021	(Group Ist)

Rate: rolin possible chives Type), c, b to each question are given. Which choice is correct fill that circle in front of that Question No. Use Marker or Pen to fill the circles. Cutting or filling two or more circles will result in Zero Mark in that Question.

N N 1	Mark the correct statement :
.No.1	(A) All Lanthanides are present in the same group.
(1)	(B) All Halogens are present in the same period.
	(C) All the Alkali Metals are present in the same group.
	(D) All the Noble Gases are present in the same period.
(2)	Laughing Gas is chemically : (A) NO (B) N ₂ O (C) NO ₂ (D) N ₂ O ₄
(3)	Which Element forms an Ion with charge +3:
10.00	(A) Beryllium (B) Aluminium (C) Carbon (D) Silicon
(4)	Which of the following Sulphate is not soluble in water :
	(A) Sodium Sulphate (B) Potassium Sulphate (C) Zinc Sulphate (D) Barium Sulphate
(5)	Chlorine Heptaoxide (Cl ₂ O ₇) reacts with water to form
	(A) Hypochlorous Acid (B) Chloric Acid (C) Perchloric Acid (D) Chlorine and Oxygen
(6)	The State of Hybridization of Carbon Atom in Methane is :
(0)	(A) sp^3 (B) sp^2 (C) sp (D) dsp^2
	Which of the given is a typical transition metal : (A) Sc (B) Y (C) Ra (D) Co
(7)	Which of the given is a typical method (a) HCIO.
(8)	Which one is chilorous here
(9)	Vinyl acetylene combines with HCl to form : (A) Polyacetylene (B) Benzene (C) Chloroprene (D) Divinyl Acetylene
(10)	Which Compound is called Universal Solvent :
(20)	(A) H_2O (B) CH_3OH (C) C_2H_5OH (D) CH_3-O-CH_3
(11)	For which Mechanisms, the first step involved is the same :
(11)	(A) E1 and E2 (B) E2 and S_N2 (C) S_N1 and E2 (D) E1 and S_N1
	Amongst the following, the compound that can be most readily Sulphonated is :
(12)	Amongst the following, the compound (A) Toluene (B) Benzene (C) Nitrobenzene (D) Chlorobenzene
(13)	Acetone reacts with HCN to form a Cyanohydrin. It is an example of : (A) Electrophilic Addition (B) Electrophilic Substitution
	(c) Harring (D) Jasmine
(14)	THE Havour of over
(15)	Micro Nutrients are required in quantity ranging from : (A) $4-40\mathrm{g}$ (B) $6-200\mathrm{g}$ (C) $6-200\mathrm{Kg}$ (D) $4-40\mathrm{Kg}$
(16)	Aldol Condensation is given by :
(20)	(A) Acetaidehyde (B) Formaldehyde (C) Benzaldehyde (D) Trimethyl Acetaidehyde
(17)	The solution of which Acid is used for seasoning of food :
(1/)	(A) Formic Acid (B) Acetic Acid (C) Benzoic Acid (D) Butanoic Acid
	B

BWP-GI-21

		Session (2017 –19) to (2020 – 22)	Inter (Part - II)
Roll No.	1309 - 18000	Session (2017 -19) to (2020	Group Ist
Chemistry (Subjective)	Inter - A - 2021	Time 2:40 Hours Marks: 68	
Chemistry		Pall El	22 x 2 = 44

		22 x 2 = 42	1					
Q.No.2	(i)	Write essential features of 4 th and 5 th Period in Periodic Table.						
Q.No.2								
	(ii)	Describe some families in Periodic Table.						
	(iii)	Write the Chemical Formulae of : (a) Calcite (b) Barite						
	(iv)	Why is the Aqueous Solution of Na ₂ CO ₃ is Alkaline in Nature?						
	(v)	Write the Chemical Formulae of : (a) Corundum (b) Cryolite						
	(vi)	Write two methods for preparation of Borax.						
	(vii)	Write the chemistry of Borax Bead Test.						
	(viii)	Describe the properties of White Phosphorus.						
	(ix)	Complete and Balance the Equations : (a) Cu + H_2SO_4 (conc) \longrightarrow (b) Zn + H_2SO_4 (dil) \longrightarrow						
	(x)	Write the name and uses of Micronutrients used in Growth of Plants.						
	(xi)	What is the function of Nitrogenous Fertilizers for the Growth of Plants?						
	(xii)	Write any four essential features of Good Fertilizers.						
Q.No.3	(i)	Write four factors on which Oxidizing Behaviour of Halogens depend.						
Q.NO.3	(ii)	Why is HF weaker acid than other Halogen Acids?						
	(iii)	Write down four uses of Bleaching Powder.						
		What are Interstitial Compounds?						
	(iv) (v)	What are interstitial Compounds? Why does Damaged Tin Plated Iron get rusted quickly?						
	(vi)	Write down mechanism for Nitration of Benzene.						
	(vii)	Write down resonance contributing structures for Benzene.						
	(viii)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
	(ix)	Write down general mechanism for Acid Catalysed Nucleophilic addition reaction of						
	(1/)	Carbonyl Compounds.						
	(x)	Write down four uses of Acetic Acid.						
	(xi)	What are Fatty Acids? Give their two examples.						
	(xii)	Convert Acetic Acid into : (a) Ethyl Alcohol (b) Ethane						
Q.No.4	(i)	Why there is no free rotation around a Carbon - Carbon Double Bond?						
	(ii)	What is meant by a Functional Group? Give the general formula of Functional Group of						
	1/	Mercaptanes and Nitriles.						
	(iii)	How will you convert : (a) Acetic Acid to Ethane (b) Methane to Ethane						
	(iv)	Name the following compounds by IUPAC System :						
	(,	(a) CH ₂ = CH - C ≡ C - CH = CH ₂ (b) CH ≡ C - CH = CH - C ≡ CH						
	(v)	Write down Chemical Equations for the preparation of Propene from :						
	(*/	(a) n - Propyl Alcohol (b) iso - Propyl Chloride						
	,		_					
	(vi)	How Tetramethyl Lead and Tetraethyl Lead are prepared?						
	(vii)	Describe Wurtz Synthesis for the preparation of Alky Halides.						
	(viii)							
	(ix)	Why the boiling points of Alcohols are higher than Corresponding Alkanes?						
		Part - II						
Q.No.5	(a)	Define Electron Affinity. Discuss its trends in Periodic Table.	1					
Q.140.3		Explain preparation of Sodium by Down's Cell.	1					
O N = C	(b)	Discuss reactions of Sulphuric Acid as a Dehydrating Agent.	1					
Q.No.6	(a) (b)	Define Corrosion. How Electrochemical Theory explains Corrosion?	1					
O N = 7	-	Define sp Hybridization. Explain the structure of Ethyne on the basis of sp - Hybridization.	1					
Q.No.7	(a)	How will you identify Carbonyl Compounds (Aldehyde and Ketones) using any four	1					
	(b)	reactions?						
Q.No.8	(a)	How will you prepare Acetylene from : (i) Vicinal Dihalide (ii) Tetrahalide	1					
2,110.0	(b)	What is β - Elimination Reaction ? Explain E_1 reaction in detail.						
	(~)	winds is p = commission reaction and the same of	1					