

Chemistry		(C)	L.K.No. 1071	Paper Code No. 8485
Paper	11	(Objective Type)	Ist - A - Exam - 2023	(Group Ist)
Time	:	20 Minutes	Inter (Part II)	
Marks	;	17	Session (2019 - 21) to (2021 - 23)	

Note: Four possible choices A, B, C, D 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.

	DWD-12-1-23									
Q.No.1	Tincal is a Mineral of : (A) Af (B) B (C) Si (D) C									
(1)										
(2)	Chile Saltpetre has the Chemical Formula : (A) NaNO ₃ (B) KNO ₃ (C) Na ₂ B ₄ O ₇ (D) Na ₂ CO ₃ • H ₂ O									
(2)										
(3)	Mark the Correct Statement: (A) All Lanthanides are present in the same group (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									
(4)	Oxidation of NO in air produces : (A) N2O (B) N2O3 (C) N2O4 (D) N2O5									
(5)	Linear Shape is associated with which set of Hybrid Orbitals : (A) sp (B) sp ² (C) sp ³ (D) dsp ²									
(6)	The strength of binding energy of transition elements depends upon :									
	(A) Number of Electron pairs (B) Number of Unpaired Electrons									
	(C) Number of Neutrons (D) Number of Protons									
(7)	Which Halogen occurs naturally in a positive Oxidation state : (A) Fluorine (B) Chlorine (C) Bromine (D) todine									
(8)	Preparation of Vegetable Ghee involves : (A) Halogenation (B) Hydrogenation (C) Hydroxylation (D) Dehydrogenation									
	Methyl Alcohol is not used: (A) As a Solvent (B) As an Anti-freezing Agent									
(9)	(A) As a Solvent (B) As an Anti-freezing Agent									
(9)	(A) As a Solvent (B) As an Anti-freezing Agent									
	(A) As a Solvent (B) As an Anti-freezing Agent (C) As a substitute for Petrol (D) For Denaturing of Ethyl Alcohol Elimination Bimolecular reactions involve: (A) First Order Kinetics (B) Second Order Kinetics									
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Roll No. 1071 -

Chemistry (Subjective) | Ist - A - Exam 2023

1071 - 18000

Inter (Part II)
Group Ist

Session (2019 – 21) to (2021 – 23) Time 2:40 Hours Marks: 68

Note: It is compulsory to attempt any (8 – 8) Parts each from Q.No. 2, Q.No.3 and attempt any (6) Parts from Q.No.4. Attempt any (3) Questions from Part – II. Write same Question No. and its Part No. as given in the Question Paper.

Make Diagram where necessary.

Part - I

Bwp-12-1-23

22 x 2 = 44

Q.No.2	(i)	Write any two points in which Boron is different from its family members.				
	(11)	Why is increase in Atomic Size not regular in case of Group III - A elements?				
	(111) -	What are Silicones ? Give their any two properties.				
	(lv)	What are Fused Membered Polycyclic Compounds? Draw structure of two compounds.				
	(v)	What do you mean by Side Chain Oxidation of Toluene?				
	(vi)	How did Kekule support his theory about structure of Benzene? Give any two points.				
	(vII)	What are Thermoplastic Polymers? Give one example.				
	(viii)	What are Polysaccharides ? Give two examples.				
	(ix)	What is Saponification Number? Give one example.				
	(x)	Which human activities are responsible for the release of Hydrocarbons in air?				
	(xi)	How do the Detergents cause the Water Pollution?				
	(xii)	How is Acid Rain harmful for Aquatic Animals?				
Q.No.3	(1)	What is meant by Hybridization?				
	(11)	Write down the structures of Isomers having Molecular Formula C ₄ H ₁₀ .				
	(111)	How is Ethyne Polymerized to Neoprene?				
	(Iv)	How can you differentiate between Saturated and Unsaturated Hydrocarbons?				
	(v)	How is Ethane produced from Ethyl Magnesium Bromide?				
	(vi)	Why Is SO ₃ dissolved in H ₂ SO ₄ and not in water?				
	(vii)	Write down the reaction of Cu with : (a) dil HNO3 (b) Conc HNO3				
	(viii)	How is H ₃ PO ₃ produced from PCi ₅ ?				
	(ix)	Write any two methods for the preparation of Alkyl Halides from Alcohol.				
	(x)	Write down the reaction of Ammonia with Ethyl Bromide.				
	(xi)	What are Essential Qualities for a Good Fertilizer? (Any Four)				
	(xli)	Write down any four Non - Woody Raw Materials for Paper Manufacturing.				
Q.No.4	(1)	Define Paramagnetism and Diamagnetism.				
	(11)	What will happen when KMnO ₄ reacts with : (a) Oxalic Acid (b) KOH				
	(111)	What are the Substitutional Alloys?				
	(iv)	How can we distinguish between Ethanol and Methanol?				
	(v)	What will happen when Diethyl Ether react with HI?				
	(vi)	Write structural formula of Glycol and Glycerol.				
	(vII)	What product would you obtain when Acetaldehyde reacts with 2,4 - DNPH?				
	(viii)	Write the Silver Mirror Test .				
	(ix)	Write down reaction of Acetic Acid with : (a) Thionyl Chloride (b) PCI ₅				
		Part - 11 3 x 8 = 24				

	A		Part - II	3 x 8 = 2	4	
Q.No.5	(a)	Explain the position of Hydrogen in I-A and VII-A Groups.				
(b) What is the role of Gypsum in Agriculture?						
Q.No.6	(a)	Discuss the Beckmann's Method for the preparation of Bleaching Powder.			(4)	
	(b)	Write down the Bleaching Step involved in the manufacturing of Paper Process.				
Q.No.7	(a)	Why there is no free rotation around a double bond and a free rotation around a single bond ? Discuss Cis – trans isomerism.			(4)	
	(b)	What happens when : (a) Benzene is heated with Conc. H ₂ SO ₄ at 250°C. (b) Chlorine is passed through Benzene in Sunlight. (c) A mixture of Benzene vapours and air are passed over heated Vanadium Pentoxide. (d) Benzene is burnt in free supply of Air.			(4)	
Q.No.8	(a)	How will you Synthesize (a) Benzene (b) Ethane			(4)	
	(b)	Discuss S _N 1 reactions in detail.				
Q.No.9	(a)	How Carbonyl Compounds are reduced by NaBH ₄ ? Give the Mechanism also.				
	(b)	How will you prepare Carboxylic Acids from : (i) Hydrolysis of Esters (ii) Oxidative Cleavage of Alkenes (iii) Alkane Nitrile (iv) Alcohols				