

Paper Code		2024 (1 <sup>st</sup> -A)		Roll No: _____	
Number: 4483		INTERMEDIATE PART-II (12 <sup>th</sup> Class)			
CHEMISTRY PAPER-II GROUP-I					
TIME ALLOWED: 20 Minutes		OBJECTIVE		MAXIMUM MARKS: 17	
Q.No.1 You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question.					
S.#	QUESTIONS	A	B	C	D
1	Formula of chloroform is:	CH <sub>3</sub> Cl	CCl <sub>4</sub>	CH <sub>2</sub> Cl <sub>2</sub>	CHCl <sub>3</sub>
2	Benzene cannot undergo reaction like:	Elimination	Addition	Oxidation	Substitution
3	Which of given is electrophile?	NH <sub>3</sub>	H <sub>2</sub> O	BF <sub>3</sub>	Cl <sub>2</sub>
4	Which compound shows strong hydrogen bonding?	C <sub>2</sub> H <sub>6</sub>	C <sub>2</sub> H <sub>4</sub>	C <sub>2</sub> H <sub>5</sub> -O-C <sub>2</sub> H <sub>5</sub>	C <sub>2</sub> H <sub>5</sub> OH
5	Which of the given compound will react with Tollen's reagent?	$\begin{array}{c} O \\    \\ CH_3 - C - OH \end{array}$	$\begin{array}{c} O \\    \\ CH_3 - C - H \end{array}$	$\begin{array}{c} O \\    \\ CH_3 - C - CH_3 \end{array}$	CH <sub>3</sub> -O-CH <sub>3</sub>
6	Which of given is not fatty acid?	Propanoic acid	Acetic acid	Phthalic acid	Butanoic acid
7	Which of these polymers is synthetic polymer?	Polyester	Starch	Animal fat	Cellulose
8	Temperature of decomposition zone during manufacturing of cement goes upto:	600°C	800°C	1000°C	1200°C
9	To avoid the formation of toxic compounds with chlorine which substance is used for disinfecting water?	KMnO <sub>4</sub>	Chloramines	Alums	O <sub>3</sub>
10	In water the concentration of dissolved O <sub>2</sub> should be:	1 – 3 ppm	2 – 4 ppm	4 – 8 ppm	8 – 12 ppm
11	Which statement is correct?	Na atom is smaller than Na <sup>+</sup>	Na atom is larger than K atom	F atom is smaller than F <sup>-</sup>	F atom is larger than F <sup>-</sup>
12	Chile saltpetre has the chemical formula:	NaNO <sub>3</sub>	KNO <sub>2</sub>	Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub>	Na <sub>2</sub> CO <sub>3</sub> ·H <sub>2</sub> O
13	Which element belongs to group IV-A of the Periodic table?	Barium	Sodium	Lead	Oxygen
14	Elements of group VI-A also called:	Halogens	Chalogens	Chalite	Halite
15	An element having high ionization energy and tends to be chemically inactive is:	An alkali metal	Halogen	Noble gas	Transition element
16	Which is the correct formula of Tetraammine Chloro-nitro-Platinum(IV) sulphate?	[PtCl(NO <sub>2</sub> )(NH <sub>3</sub> ) <sub>4</sub> ]SO <sub>4</sub>	[Pt(NO <sub>2</sub> )Cl(NH <sub>3</sub> ) <sub>4</sub> ]SO <sub>4</sub>	[Pt(NH <sub>3</sub> ) <sub>4</sub> Cl(NO <sub>2</sub> )]SO <sub>4</sub>	[Pt(NH <sub>3</sub> ) <sub>4</sub> (NO <sub>2</sub> )Cl]SO <sub>4</sub>
17	A double bond consists of:	Two sigma bonds	Two Pi bonds	One sigma and one Pi bond	One sigma and two Pi bonds

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INTERMEDIATE PART-II (12 <sup>th</sup> Class)		2024 (1 <sup>st</sup> -A)	Roll No: _____
CHEMISTRY PAPER-II GROUP-I			
TIME ALLOWED: 2.40 Hours		SUBJECTIVE	MAXIMUM MARKS: 68
NOTE: Write same question number and its parts number on answer book, as given in the question paper.			
SECTION-I			
2. Attempt any eight parts.		MTN-1-24	8 × 2 = 16
(i)	Define ionization energy with an example.		
(ii)	Write down any two dissimilarities of Hydrogen with group 1-A elements.		
(iii)	How is gypsum converted into Plaster of Paris?		
(iv)	Write down the formulas of (i) Dolomite (ii) Halite		
(v)	How chromate ions are converted into dichromate ions?		
(vi)	Why does damaged tin plated iron get rusted quickly?		
(vii)	Elaborate the mechanism of $S_N2$ reactions.		
(viii)	Define nucleophile with an example		
(ix)	Draw the structure of cholesterol.		
(x)	How vinyl acetate converted into polyvinyl acetate.		
(xi)	Write down the name of any four classes of enzymes.		
(xii)	Mention the role of Phosphorus in early growth of plant.		
3. Attempt any eight parts.			8 × 2 = 16
(i)	How alkene is converted into epoxide? What is its application?		
(ii)	Prepare the cyclic polymer of ethyne.		
(iii)	How good quality polythene is obtained from ethene?		
(iv)	How does $H_3PO_3$ act as a reducing agents?		
(v)	Give four uses of $H_2SO_4$		
(vi)	Write the names and examples of two compounds containing carbonyl functional group.		
(vii)	Name two types of the isomerism shown by alkene with example.		
(viii)	Justify that bleaching powder is oxidizing agent.		
(ix)	What are Freon and Teflon?		
(x)	What chemical reaction takes place in stratosphere with ozone?		
(xi)	What is Smog? Give its types?		
(xii)	What are leachates?		
4. Attempt any six parts.			6 × 2 = 12
(i)	Why $CO_2$ is gas while $SiO_2$ is solid?		2
(ii)	Write down any two uses of $Al$ .		1+1=2
(iii)	What is the chemistry of borax bead test?		2
(iv)	Define resonance. Write down Kekule's structures of benzene.		1+0.5+0.5=2
(v)	What is denaturing of alcohol?		2
(vi)	Why is Phenol acidic in nature?		2
(vii)	What is formalin? Give its two uses.		1+0.5+0.5=2
(viii)	Write down the structures of: (a) Malonic acid (b) Phthalic acid		1+1=2
(ix)	What is strecker synthesis?		2
SECTION-II			
NOTE: Attempt any three questions.			3 × 8 = 24
5.(a)	Write down the point of similarities and difference of hydrogen with IA and IVA groups. (any two of each)		4
(b)	Describe with diagram the manufacture of sodium by Down's Cell.		4
6.(a)	Give any eight applications of Noble gases.		4
(b)	How do Diammonium phosphate and Potassium nitrate prepared? Give their properties and uses.		4
7.(a)	What is Cracking of petroleum? Discuss its three types.		1+3=4
(b)	Explain two main factors which govern the reactivity of alkyl halides.		4
8.(a)	Describe both Linear Polymerization and Cyclic polymerization of Acetylene by means of chemical reaction.		4
(b)	Write a note on Aldol condensation reaction of carbonyl compounds with mechanism.		4
9.(a)	Describe structure of benzene on the basis of atomic orbital treatment.		4
(b)	How ethyl alcohol is prepared by the fermentation of: (i) Molasses (ii) Starch		4