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INTERMEDIATE PART-II (12th CLASS)

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TIME Note: think Cuttinguesti	E ALLOWED: 20 In the second of	Minutes ices for each objective ubble in front of that core bubbles will resu etive type question pa	question number. Use It in zero mark in that per and leave others b	MAXIMUM MARKS: 17 B, C and D. The choice which you e marker or pen to fill the bubbles. It question. Attempt as many blank. No credit will be awarded in OBJECTIVE PAPER.
Q.No.		ied. Do not solve que		
(1)	Keeping in view the	size of atoms, the corn	rect order is:-	
	(A) $Mg > Sr$	(B) $Ba > Mg$	(C) $Lu > Ce$	(D) $C\ell > I$
(2)	The mineral CaSO ₄ .	$2H_2O$ has general nam	ne of:-	
	(A) Gypsum	(B) Dolomite	(C) Calcite	(D) Epsom Salt
(3)	elements is no	ot present abundantly in	n earth's crust.	
	(A) Silicon	(B) Aluminium	(C) Sodium	(D) Oxygen
(4)	Oxidation of NO in	air produces:-		
	(A) N ₂ O	(B) N_2O_3	(C) N_2O_4	(D) N_2O_5
(5)	The anhydride of Ho	ClO, is:-		
5.16	(A) <i>ClO</i>	(B) <i>ClO</i> ₂	(C) ClO ₃	(D) $C\ell_2O_7$
(6)		er of Pt in $PtCl(NC)$		
(6)				(D) 6
(7)	(A) 2	(B) 4	(C) 1	(D) 0
(7)	Ether shows the pher		oun isomerism (C) M	etamerism (D) Cis-trans isomerism
(8)		bines with $HC\ell$ to for		
(0)	(A) Polyacetylene	(B) Benzene	(C) Chloroprene	(D) Divinyl acetylene
(9)		as a catalyst in Friedel-		
(3)	(A) $A\ell C\ell_3$	(B) <i>HNO</i> ₃		(D) NaCl
(10)			(C) Beer 2	(2) 1.000
(10)	is not a nucle (A) H_2O	(B) H_2S	(C) BF ₃	(D) NH ₃
(1.1)	-	-		(2) 11113
(11)	_	concept; ether behave	Acid as well as a base	(D) Electrophile
(12)	(A) Acid	(B) Base (C) f a Carbonyl group is:-	Acid as well as a base	(b) Electropinie
(12)			(C) sp³ hybridized	(D) dsn^2 hybridized
(10)	(A) sp hybridized		(C) sp Hybridized	(D) usp hydraized
(13)	Acetic acid can be r	-	(C) Openalizaia	(D) Esterification
(1.4)	(A) Distillation	(B) Fermentation	(C) Ozonolysis	
(14)			the waste water is due t	(D) Chromium (III)
(15)	(A) Lead	(B) Chromium (VI)	(C) Copper	(D) Chromain (III)
(15)		n a fat and <i>NaOH</i> is:-	(C) Formantation	(D) Saponification
(16)	(A) Esterification	(B) Hydrogenolysis	(C) Fermentation	(D) Saponineation
(16)	Phosphorus helps in	(B) Leave	(C) Stem	(D) Seed
(17)	(A) Root is secondary	-	(C) Stelli	(2)
(17)	(A) Carbonic acid	(B) <i>CO</i> ₂	(C) SO ₂	(D) <i>CO</i>
	() carbonne aoid	(-)2	(-) 2	· /

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INTERMEDIATE PART-II (12th CLASS)

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CHEMISTRY	PAPER-II	(NEW SCHEME)	GROUP-I	

TIME ALLOWED: 2.40 Hours **SUBJECTIVE MAXIMUM MARKS: 68** NOTE: - Write same question number and its part number on answer book, as given in the question paper. **SECTION-I** $8 \times 2 = 16$ 2. Attempt any eight parts. Define Atomic Radius. Why Atomic Radius of Alkali metals increases in group of Periodic table? (i) What are Halides? Give their types. (ii) (iii) What is function of *Ca* in plant growth? What is the formula of Red Lead? Give its principle uses. (iv) What is the effect of heat on the Orthoboric Acid? (v) What is the Chemistry of the Borax-bead Test? (vi) Orthophosphoric acid is a weak tribasic acid. Prove it giving reactions with NaOH. (vii) Complete the following chemical equations:-(viii) (b) $KI + NO_2 \longrightarrow$ (a) $H_2S + NO_2 \longrightarrow$ Concentrated H_2SO_4 act as a dehydrating agent. Give two examples. (ix) What is meant by Biochemical Oxygen Demand? (x) (xi) Define Smog. Give the composition of Photochemical Smog. (xii) What is an Oil Refinery? Mention oil refineries in Pakistan. 3. Attempt any eight parts. $8 \times 2 = 16$ Name the following complexes according to IUPAC System:-(i) (b) K_2 $Pt(C\ell)_6$ (a) $|Cr(OH)_3(H_2O)_3|$ Define the term coordination number with an example. (ii) How Ethylene is converted into? (a) Ethylene Oxide (b) Ethylene glycol (iii) How will you convert 1 - propanol into 1 - chloro - 2 - propanol? (iv) Write down the structural formulae of following compounds:-(v) (b) Acetophenone (a) Benzophenone Which method is more useful for the preparation of ethyl chloride? Give its chemical reaction. (vi) Write down the structural formulae of following compounds:-(vii) (a) Glycerol (b) Lactic acid Ethyl alcohol is a liquid while methylchloride is a gas? Justify. (viii) How will you distinguish between Acetaldehyde and Benzaldehyde? (ix) Discuss the reaction of an aldehyde with Tollen's reagent. (x) (xi) What are Zwitter Ions? What is a Peptide Bond? Write down formula of a dipeptide? (xii) 4. Attempt any six parts. $6 \times 2 = 12$ What are Thermosetting Polymers? Give an example. (i) Define Saponification number with an example. (ii) Write four importances of Lipids. (iii) What are Micronutrients? (iv) Describe the composition of a good Portland cement. (v) How is the wet sheet of paper dried in paper industry? (vi) Why is HF a weaker acid than $HC\ell$? (vii) Write the reactions of bleaching powder with (a) NH_3 (b) CO₂ (viii) Give two uses of Argon. (ix) **SECTION-II** $8 \times 3 = 24$ NOTE: - Attempt any three questions. Explain the position of Hydrogen in 1 A and VII A groups and explain its similarities and 5.(a) dissimilarities with those groups. 4 What is the role of Gypsum in Agriculture and Industry? 4 (b) Explain the following properties of Transition metals:-4 6.(a)(i) Paramagnetism (ii) Colour 4 Explain the process of incineration of industrial waste. (b) 4 Define Alicyclic compounds and Aromatic compounds with one example in each case. 7.(a)Predict the major products of bromination of the following compounds:-4 (b) (i) Toluene (ii) Benzoic acid (iii) Benzaldehyde (iv) Phenol 4 How will you bring about the following conversions? 8.(a) (ii) Acetic acid to Ethane (i) Methane to Ethane How is Methyl alcohol obtained on large scale from water gas? Draw diagram also. 4 (b)

9.(a)

(b)

(i) Water

Write reactions of ethyl magnesium bromide with:-

(iii) Alcohol

Explain Cannizzaro's reaction with suitable examples and mechanism.

(iv) CO_2

(ii) Ammonia

2010 (A)

Number: 4482

INTERMEDIATE PART-II (12th CLASS)

CHEMISTRY PAPER-II (NEW SCHEME) GROUP-II

TIME	ALLOWED: 20 N	/Iinutes	OBJECTIVE	MAXIMUM MARKS: 17
Note: think i Cuttin questic case B	You have four choics correct, fill that bug or filling two or moons, as given in object UBBLES are not fill	ces for each objective bble in front of that q ore bubbles will resul	type question as A, B, C and question number. Use mark it in zero mark in that questioner and leave others blank. It is stions on this sheet of OBJE	on. Attempt as many No credit will be awarded in
Q.No.1 (1)	The ionization energ (A) Lower than that (C) Higher than that	of Barium	(B) Lower than that of Magn (D) Lower than that of Stron	nesium ntium
(2)	does not belon	g to Alkaline Earth Mo	etal.	
	(A) Rn	(B) <i>Ba</i>	(C) Ra	(D) Be
(3)	The chief ore of Alur	ninium is:-		
	(A) $Na_3A\ell F_6$	(B) $A\ell_2O_3.H_2O$	(C) Al_2O_3 . $2H_2O$	(D) $A\ell_2O_3$
(4)	The brown gas forme	ed, when metal reduces	: HNO ₃ to:-	
	(A) N_2O_3	(B) N_2O_5	(C) NO	(D) NO ₂
(5)	is the stronges	st acid in water.		
,		(B) <i>HCℓO</i> ₂	(C) $HC\ell O_3$	(D) $HC\ell O_4$
(6)	The strength of bind (A) Number of neutronic (C) Number of unpa	rons	n elements depends upon:- (B) Number of protons (D) Number of electron pair	rs
(7)	Linear shape is assoc	ciated with which set o	f hybrid orbitals:-	
	(A) dsp^2	(B) sp^3	(C) sp^2	(D) <i>sp</i>
(8)	Vinyl acetylene com	bines with $HC\ell$ to for	m:-	
	(A) Polyacetylene	(B) Benzene	(C) Chloroprene	(D) Divinylacetylene
(9)	compound	is the most reactive one	e.	
	(A) Ethene	(B) Benzene	(C) Ethane	(D) Ethyne
(10)	is not a nuc	leophile.		
(11)	(A) H_2S Ethanol can be con-	(B) H_2O verted into Ethanoic A	(C) BF_3 cid by:-	(D) <i>NH</i> ₃
17 8	(A) Hydration	(B) Hydrogenation	(C) Fermentation	(D) Oxidation
(12)	have the hig	hest boiling point.		
	(A) 2 – Hexanone	(B) Propanal	(C) Ethanal	(D) Methanal
(13)	reagent is (A) NaBH ₄		oxylic group to an alcohol. (C) $LiA\ell H_4$	(D) $\frac{H_2}{N_i}$
(14)		not present in all prote	ins.	, .
(14)	(A) Sulphur	(B) Hydrogen	(C) Carbon	(D) Nitrogen
(15)	Phosphorus helps tl	ne growth of:-		
	(A) Leave	(B) Root	(C) Seed	(D) Stem
(16)	The main pollutan	t of leather tanneries in	the waste water is due to the	
	(A) Chromium (III		(C) Chromium(VI)	(D) Copper
(17)	Peroxyacetylnitrate	e(PAN) is an irritantant	to human beings and it affect	S:-
	(A) Eyes	(B) Ears	(C) Stomach	(D) Nose
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INTERMEDIATE PART-II (12th CLASS)

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			GROUP-II
CHEMISTRY	PAPER-II	(NEW SCHEME)	GROOT-II
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SUBJECTIVE

TIME ALLOWED: 2.40 Hours

NOTE: - Write same question number and its part number on answer book, as given in the question paper.

SECTION-I

- Attempt any eight parts. Why are the ionic radius of negative ions larger than the size of their parent atoms? (i)

Zinc oxide is amphoteric in nature. Explain with reactions. (ii)

How is Gypsum converted into plaster of Paris? Write chemical equation. (iii)

Write the formula of (a) Bauxite (b) Cryolite (iv)

Write the Chemistry of Borax Bead test with an example. (v)

Why are Silicones preferred to petroleum products as lubricant? (vi)

Write two reactions of NO with (a) FeSO₄ (b) H_2S (vii)

Write two reactions of P_2O_5 as dehydrating agent. (viii)

Write two similarities of Oxygen and Sulphur. (ix)

What is the role of Chlorofluorocarbons in destroying ozone? Write reactions.

How is the quality of water determined by chemical Oxygen demand? (x) (xi)

Define Heterocyclic compounds with two examples. (xii)

 $8 \times 2 = 16$

 $8 \times 2 = 16$

MAXIMUM MARKS: 68

Give systematic names to following complexes:- (a) $[Fe(CO)_5]$ (b) $[Co(NH_3)_6]C\ell_3$ (i)

Give the uses of KMnO4. (ii)

2.

3.

4.

What happens when ter-butyl alcohol is treated with conc. H_2SO_4 ? (iii)

How will you distinguish acetylene and ethene? (iv)

How will you prepare the following compound from Benzene in two steps? (v) m - chloronitro benzene

Give the reaction of Ethylene epoxide with ethyl-magnesium bromide. (vi)

Give the four uses of Ethanol.

How phenol is prepared from Chlorobenzene (Dow's Method)? (vii)

What does happen when Alkaline Sodium nitroprusside solution is added to Ketones? (viii)

How does an Aldehyde react with (a) hydroxylamine (b) Hydrazine (ix) (x)

Write down the four uses of Acetic Acid. (xi)

What are essential and non-essential Amino Acids? (xii) Attempt any six parts.

 $6 \times 2 = 12$

Write reactions of H_2SO_4 with $NaCl_{(S)}$ and $NaBr_{(s)}$. (i)

Justify that $C\ell_2O_7$ is the anhydride of perchloric acid. (ii)

Write important uses of Radon. (iii)

Write note on Polyester resins. (iv)

What is the effect of pH on Enzymes? (v)

Point out the difference between Glucose and Fructose?

Write importance of Nitrogen for growth of plant. (vi) (vii)

Define Lignin, write its effect on paper. (viii)

Write names of two woody and two non-woody raw materials used for manufacturing of paper. (ix)

SECTION-II $8 \times 3 = 24$ NOTE: - Attempt any three questions. 4 What are Hydrides? Give classification of Hydrides with Periodic Trend. 4 5.(a) 4

Describe with diagram the manufacture of Sodium by Down's cell. (b)

Give two methods for the preparation of $K_2Cr_2O_7$, also give its two uses. 4 What is Acid Rain? How does it affect our environment? 6.(a)

(b)

Define Hybridization and explain the structure of Ethyne according to Hybridization concept. 4 What are Friedel-Crafts' reactions? Explain by giving two examples with mechanism. 4 7.(a)

4 How will you prepare following from Ethyne (Equations only):-(b) 4

(i) Acetaldehyde (ii) Benzene (iii) Ethane (iv) Oxalic acid 8.(a)

Write two methods for the preparation of Phenol. What is β -Elimination? Explain briefly the two possible mechanisms 4 9.(a) 4 of β – Elimination reactions.

What type of Aldehydes give Cannizzaro's reaction? Give its Mechanism. 24-2018(A)-10000