Nui	mber: 4484	INTERMEDIA	TE PART-	II (12th CLAS	SS)		
CH	EMISTRY PAPI	ER-II (NEW SO	CHEME) (GROUP-II	MTN-92-12-1		
TIM	IE ALLOWED: 20	Minutes	OBJECT	IVE	MAXIMUM MARKS		
Cutt	ing or filling two or n tions as given in obje BUBBLES are not fil	ubble in front of tha nore bubbles will res ctive type question p	t question num sult in zero ma aper and leave	nber. Use mar rk in that ques e others blank	nd D. The choice which yo ker or pen to fill the bubble tion. Attempt as many		
(1)	element is r	not present in all prote	eins.				
	(A) Sulphur	(B) Hydrogen	(C) Carbon		(D) Nitrogen		
(2)	Phosphorus helps th	e growth of:-					
	(A) Leave	(B) Root	(C) Seed		(D) Stem		
(3)	The main pollutant of	of leather tanneries in	the waste wate	r is due to the s	alt of:-		
	(A) Chromium (III)	(B) Lead	(C) Chromi	um(VI)	(D) Copper		
(4)	Peroxyacetylnitrate(H	PAN) is an irritantant	to human being	gs and it affects			
	(A) Eyes	(B) Ears	(C) Stomac	h	(D) Nose		
(5)	The ionization energy (A) Lower than that (C) Higher than that	of Barium		han that of Mag			
(6)	does not belong to Alkaline Earth Metal.						
	(A) Rn	(B) Ba	(C) Ra	('0'	(D) Be		
(7)	The chief ore of Aluminium is:-						
	(A) $Na_3A\ell F_6$	(B) $A\ell_2O_3.H_2O$	(C) $A\ell_2O_3$.	2H,O	(D) $A\ell_2O_3$		
(8)	The brown gas formed, when metal reduces HNO ₃ to:-						
	(A) N_2O_3	(B) N_2O_5	(C) <i>NO</i>		(D) NO		
(9)	is the stronges	Secretarian	(C) NO		(D) <i>NO</i> ₂		
)	(A) HClO	(B) HClO,	(0) 11310				
10)			(C) HClO ₃		(D) <i>HCℓO</i> ₄		
10)	(A) Number of neutr (C) Number of unpair		(B) Number		rs		
11)	Linear shape is associated	ciated with which set	of hybrid orbita	als:-			
	(A) dsp^2	(B) sp^3	(C) sp^2		(D) <i>sp</i>		
(12)	Vinyl acetylene com	bines with HCl to fo	orm:-		-		
	(A) Polyacetylene	(B) Benzene	(C) Chlorop	rene	(D) Divinylacetylene		
(13)	compound is	s the most reactive on			, - , ,		
	(A) Ethene	(B) Benzene	(C) Ethane		(D) Ethyne		
14)	is not a nucl	eophile.					
15)	(A) H_2S Ethanol can be conve	() () () () () () () () () ()	(C) BF ₃		(D) NH ₃		
	(A) Hydration	(B) Hydrogenation	(C) Ferment	ation	(D) Oxidation		
16)	have the highest boiling point.						
	(A) 2 – Hexanone	10 TO	(C) Ethanal		(D) Methanal		
17)	reagent is used to reduce a Carboxylic group to an alcohol.						
	(A) NaBH ₄	(B) $\frac{H_2}{pt}$	(C) LiAlH ₄	and district.	(D) H_2/N		

2018 (A) Roll No:

INTERMEDIATE PART-II (12th CLASS)

CHEMISTRY PAPER-II (NEW SCHEME) GROUP-II

MTN-G2-12-18

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

2. $8 \times 2 = 16$ Attempt any eight parts. (i) Why are the ionic radius of negative ions larger than the size of their parent atoms? Zinc oxide is amphoteric in nature. Explain with reactions. (ii) (iii) How is Gypsum converted into plaster of Paris? Write chemical equation. Write the formula of (a) Bauxite (iv) (b) Cryolite (v) Write the Chemistry of Borax Bead test with an example. (vi) Why are Silicones preferred to petroleum products as lubricant? (vii) Write two reactions of NO with (a) FeSO₄ (viii) Write two reactions of P_2O_5 as dehydrating agent. (ix) Write two similarities of Oxygen and Sulphur. (x) What is the role of Chlorofluorocarbons in destroying ozone? Write reactions. (xi) How is the quality of water determined by chemical Oxygen demand? (xii) Define Heterocyclic compounds with two examples. 3. Attempt any eight parts. Give systematic names to following complexes:- (a) $[Fe(CO)_5]$ (b) Co (NH (i) (ii) Give the uses of KMnO4. What happens when ter-butyl alcohol is treated with conc. H_2SO_4 ? (iii) (iv) How will you distinguish acetylene and ethene? (v) How will you prepare the following compound from Benzene in two steps? m - chloronitro benzene (vi) Give the reaction of Ethylene epoxide with ethyl-magnesium bromide. (vii) Give the four uses of Ethanol. (viii) How phenol is prepared from Chlorobenzene (Dow's Method)? (ix) What does happen when Alkaline Sodium nitroprusside solution is added to Ketones? (x) How does an Aldehyde react with (a) hydroxylamine (b) Hydrazine (xi) Write down the four uses of Acetic Acid. (xii) What are essential and non-essential Amino Acids? 4. Attempt any six parts. $6 \times 2 = 12$ Write reactions of H_2SO_4 with $NaCl_{(S)}$ and $NaBr_{(S)}$. (i) (ii) Justify that $C\ell_2O_7$ is the anhydride of perchloric acid. (iii) Write important uses of Radon. (iv) Write note on Polyester resins. What is the effect of pH on Enzymes? (v) (vi) Point out the difference between Glucose and Fructose? (vii) Write importance of Nitrogen for growth of plant. (viii) Define Lignin, write its effect on paper. Write names of two woody and two non-woody raw materials used for manufacturing of paper. (ix) SECTION-II M

NOTI	SECTION-II	× 3 = 24
5.(a) (b)	E: - Attempt any three questions. What are Hydrides? Give classification of Hydrides with Periodic Trend. Describe with diagram the manufacture of Sodium by Down's cell.	× 3 – 24 . 4 . 4
6.(a) (b)	Give two methods for the preparation of $K_2Cr_2O_7$, also give its two uses. What is Acid Rain? How does it affect our environment?	4
7.(a) (b)	Define Hybridization and explain the structure of Ethyne according to Hybridization concept What are Friedel-Crafts' reactions? Explain by giving two examples with mechanism.	ot. 4
8.(a) (b)	How will you prepare following from Ethyne (Equations only):- (i) Acetaldehyde (ii) Benzene (iii) Ethane (iv) Oxalic acid Write two methods for the preparation of Phenol.	4
9.(a)	What is β -Elimination? Explain briefly the two possible mechanisms of β -Elimination reactions.	4
(b)	What type of Aldehydes give Cannizzaro's reaction? Give its Mechanism.	4