Number: 4

4482

INTERMEDIATE PART-II (12th CLASS)

CHEMISTRY	(NEW SCHEME)	GROUP-II
	00.00	

TIME ALLOWED: 20 Minutes

OBJECTIVE

MAXIMUM MARKS: 17

Note: 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. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question. Attempt as many questions as given in objective type question paper and leave others blank. No credit will be awarded in case BUBBLES are not filled. Do not solve questions on this sheet of OBJECTIVE PAPER.

case E Q.No.	BUBBLES are not fil	lled. Do not solve ques	tions on this sheet of OBJ	ECTIVE PAPER.		
(1)	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 ground					
	(D) All the noble gases are present in the same period					
(2)	Chile sultpetre has t	he chemical formula:				
	(A) $NaNO_3$	(B) <i>KNO</i> ₂	(C) $Na_2B_4O_7$	(D) $Na_2NO_3.H_2O$		
(3)	Which metal is used in the thermite process because of its activity?					
	(A) Iron	(B) Copper	(C) Aluminium	(D) Zinc		
(4)	Which of the follow	wing species has the max	timum number of unpaired of			
	(A) O ₂	(B) O_2^+	(C) O_2^-	(D) O_2^{2-}		
(5)	Which of the follo	wing hydrogen halide is	the weakest acid in solution	n?		
	(A) HF	(B) HBr	(C) HI	(D) HCl		
(6) 1.	Which of the follo	wing is a non-typical trai	nsition element?			
1000	(A) Cr	(B) Mn	(C) Zn	(D) Fe		
(7)	The state of hybrid	lization of carbon atom i	n methane is:			
	(A) sp		(C) sp ³	(D) dsp^2		
(8)	Preparation of veg	etable ghee involves:	.6			
7.4	(A) Halogenation		(C) Hydroxylation	(D) Dehydrogenation		
(9)	Which of the follo		talyst in Friedel-Crasts reac	tions?		
	(A) AlCl3	(B) HNO ₃	(C) BeCl ₂	(D) NaCl		
(10)	S _N 2 reactions can	be best carried out with				
		(A) Primary alkyl halides (B) Secondary alkyl halides (C) Tertiary alkyl halides (D) All of these				
(11)						
1	(A) Hydrogenation	(B) Hydration	(C) Oxidation	(D) Fermentation		
(12)	Which one of the following will have the highest boiling point?					
	(A) Mathanal	(B) Ethanal	(C) Propanal	(D) 2 - Hexanone		
(13)	Amyl acetate has the flavour of:					
	(A) Apricot	(B) Banana	(C) Orange	(I)) Jasmine		
(14)	Which of the following elements is not present in all proteins?					
	(A) Carbon	(B) Hydrogen	(C) Nitrogen	(D) Sulphur		
(15)	Vegetable oils are	:				
	(A) Unsaturated for (C) Glycerides of	atty acids saturated fatty acids		unsaturated fatty acids obtained from plants		
(16)	Which woody raw material is used for the manufacture of paper pulp?					
	(A) Cotton	(B) Bagasse	(C) Poplar	(D) Rice straw		

(17) A single Chloride free radical can destroy how many Ozone molecules?

(B) 100000

(A) 100

(C) 10000 (D) 1000

24(Obj)(4)-2019(A)-10000 (MULTAN)

 $8 \times 2 = 16$

2019 (A) Roll No - INTERMEDIATE PART-II (12th CLASS)

CHEMISTRY PAPER-II (NEW	SCHEME) GRO	II-9UC
-------------------------	-------------	--------

TIME ALLOWED: 2.40 Hours

2.

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.		Attempt any eight parts.		8 :	$\times 2 = 16$
1	(i)	Why ionization energy decreases down the ground	ip?		
	(ii)	Why metallic character increases from top to be	ottom in a group of me	tals?	
	(iii)	Why 2 % gypsum is added in the cement?			
	(iv)	Why is CO_2 a gas at room temperature while 2	SiO_2 is a solid?		
	(v)	Name four important Boric acids.			
	(vi)		lin (Pottery clay)	(ii) Zircon	
	(vii)	Write down the structural formulas of: (i) Nit		(ii) Nitric acid (F	INO_3)
	(viii)				3.
	(ix)	Complete and balance the following equations	7		
	(1.1)				
		(i) $H_2S + NO \longrightarrow$ (ii)	$NO_2 + H_2O \longrightarrow$		
	(x)	Name eight macronutrients of fertilizers.			
	(xi)	Write down two important raw materials used f			
	(xii)	What is chemical oxygen demand (COD)? Ho	w it can be determined		igenzi La
3.		Attempt any eight parts.		8	\times 2 = 16
	(i)	What are heterocyclic compounds? Give two			
	(ii)	How is 2-Butyne converted into Cis-2-Buten			
	(iii)	How would you establish that ethylene contain	is a double bond?		
		Justify your answer with a chemical reaction.			
	(iv)	Give two objections to Kekule's formula of Bo		- 0 > 0 > 1	
	(v)	How is benzene prepared from the given comp			
	(vi)	Give reactions of ethyl chloride with:	(a) Sodium metal	(b) Sodium	en Chloride
-	(vii)		in (a) Ethanol	(b) Cyanog	en Chioride
	(viii)		* * * C		
	(ix)	State term esterification with an example.	luned to CUI group	188	
	(x)	Give a reaction in which - COOH group is rec	luced to -E113 group	•	
	(xi)	What is Zwitter ion? Give an example.			
	(xii)				× 2 = 12
4.	124	Aftempt any six parts.	e Contaboria unid	0	× 2 = 12
	(i)	Give reaction of bleaching powder with exce			
	/11x	How the activity of bleaching powder is mea	sured.		
	(ii)	Give two uses of Argon.	CO MIJ		
	(iii)	Give reactions of $X_e F_4$ with (i) Hg	(ii) NH ₃		
	(iv)	Under what conditions, does aluminium corr	ode?		
	(v)	Give any four uses of Formaldehyde.	1 .1 10		
	(vi)	How will you distinguish between methanal	and ethanat?		
	(vii)		ua auamala		
	(viii (ix)				
	(11)		ION-II		
NC	TE.	- Attempt any three questions.	IOIV-II	8	x 3 = 24
5.6		Define electron affinity. Explain trends of ele	ctron affinity in group		4
(b)	Complete and balance the given equations:	(i) $Mg(OH)_2$ -		4
		(ii) $Li_2O + H_2O \longrightarrow$ (iii) Na_2O_2	+ H2O	(iv) NaNO ₃ —	lleat -
6.()	Write down the chemical equations for the rea			4
0.1		A CONTRACT C			7
		(i) H_2S (ii) $FeSO_4$ (iii)			
. (b)	What is smog? Write down the conditions req		•	4
7.(Define Hybridization and explain the structure of			4
	b)	What are aromatic hydrocarbons? How are the			4
8.(How will you convert ethyne to? (i) Ethene (ii		Divinyl acetylene	(iv) Glyoxal
	b)	Write down any two methods for the preparation			4
9.(How C_2H_5 -Mg-Br reacts with (i) CO_2 (ii)		$CO-CH_3$ (iv) (CH_3CHO 4
(b)	Explain Aldol condensation with its mechanism.			4
		Physical Section 1995	24-2019(A)-19	0000 (MULTAN	٧)