te:	01 Ma		ne is co	rrect with blue or black b	N-A AR shee	et must be returned to the su t in separate OMR Sheet life yen to such answer.	ıperint	
i.	Wat	ter gas is a mixture of.			11			
	(A)	CO + H ₂	B	C and H ₂	0	CO and H ₂ O	0	C and H ₂ O
ii.	Pero	centage of Nitrogen in	Urea	is.				182
	(A)	14	B	28	0	46.67	0	60
ii.	Lov	vest temperature in tro	posph	ere is.				
	A	5°c	B	-5°c	0	56°c	0	-56°c
V.	The	gas(es) which is/are re	espon	sible for acid rain is/a	ire.			
	A	SO ₂	B	NO ₂	0	CO ₂	0	All SO ₂ , NO ₂ , & CO
V.	Defeciency of Vitamin A causes.							
	(A)	Scurvy	B	Night blindness	0	Rickets	(D)	Aging
i.	A la	rge number of amino	acids	polymerizes into.				
	(A)	Vitamins	B	Carbohydrates	©	Proteins	0	Lipids
i.	Deh	ydro halogenation of A	Alkyl	Halide is.		X-		
i.	(A)	Removal of hydrogen aturated Hydrocarbon		Removal of Halogen	0	Removal of hydrogen and halogen	(b)	Addition of hydroger and halogen
1.		+1.72 New York	20 <u>44</u> 201	CH	0	CH		CH
e.	(A)	C ₃ H ₈	B	C ₂ H ₆	0	C ₃ H ₆	0	CH ₄
Κ. 	A	general formula of car R-x	1470	. 0	6	9	0	D. OH
			B 1 au	R-C-OH	©	R-C-R	0	R-OH
	(A)	ch of the following is Hel	0.805.85		(a)	DE.	0	F
i.	575760	which is used as antac	B B	AlCl ₃	©	BF ₃	(
4.	(A)	Copper Sulphate	B)	Sodium Chloride	0	Sodium Sulphate	(D)	Magnesium Sulphate or Epsom salt
i.	The	equilibrium constant ((Kc) is	s equal to.		N = 0		Ados
	A	Kf-Kr	B	Kf+Kr	0	Kf Kr	0	Kr Kf

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Note: Time allowed for section B and C is 2 hours and 40 minutes.

SECTION "B"

Marks: 32

- II. Attempt any EIGHT Parts out of the following. Each Part carries equal marks.
 - i. Calculate the unit of equilibrium constant Kc for the following reaction. $N_2O_4(g) \longrightarrow 2 NO_2(g)$
 - ii. Calculate the PH and POH of 0.5M solution of Hcl?
 - iii. Define functional group? Give two examples of functional group containg oxygen.
 - iv. How would you test that alkene undergo an addition reaction?
 - v. Briefly describe the sources and deficiency symptoms of Vitamin A?
 - vi. Identify different sources of Protein? Also list the four uses of protein?
 - vii. What are the adverse effects of global warming?
 - viii. Describe briefly how ozone layer is depleted in the atmosphere?
 - ix. Explain briefly occurence of water?
 - x. Make the distinction between soft and hard water.
 - xi. Write down at least four uses of Urea?

SECTION "C"

Marks: 21

Note: Attempt any THREE questions of the following. Each question carries equal Marks.

(a) Define law of mass action and derive an expression for the equilibrium constant. 4 III. (b) Write down three types of salts with examples. 3 4 (a) Write down general characteristics of organic compounds in detail. IV. 3 (b) Write balanced equation for the following. (ii) Ethene with hydrogen (i) Ethene with Bromine (iii) Ehtene with KMnO₄ (a) Distingwish between monosacc harides, disaccharides and poly saccharides with examples. 3 V. (b) Write down Effect of Acid rain on. (iv) Human (ii) Plants (iii) Material (i) Fishes 4 VI. (a) Write down reaction of water with. (iii) CaO (iv) CH₃COONa (i) K (ii) Cl₂ (b) Write down basic reactions for manufacture of sodium carbonate by Solvay's process. 3