	Version No.					ROLL NUMBER					WEAMEDIATE AND OF			
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Section – A is compulsory. All parts of this section are to be answered on this page and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil. CHEMISTRY HSSC-I SECTION – A (Marks 17) Time allowed: 25 Minutes														
Fill	the r	eleva	nt bu	ıbble	against each o	lues	tion):					ن دائرہ کو پر کریں۔ 	ہر سوال کے سامنے دیے گئے در سنے
1.					n present in 500g , C/=35.5, O=16)	g of	0	7.3×1	024	0	3.61×10 ²⁴		2.45×10 ²⁴	36.8×10 ²³
2.	MgS made Sulph	. Hove	w mar 1 24 <i>g</i> v the	ny gra g of react	h Sulphur to produce MgS can Mg with excession $Mg+S \to M$	be of	0	35g			56 <i>g</i>	0	58.3 <i>g</i>	○ 12 <i>g</i>
3.	Whic functi		the f	ollow	ing is NOT a s	tate	0	Pressi	ıre	0	Volume	0	Temperature	Work
4.		. JS			is $4 \times 10^{15} Hz$, the $626 \times 10^{-34} Js)$	n its	0	26.5×	$10^{-18}J$		26.5×10 ⁻¹⁹ J	0	26.5×10 ¹⁹ J	O 26.5×10 ¹⁸ J
5.	havin	g larg	e ator	mic ni	y's law, when me umber will be use roduce X-rays of:			Longe		0	Low wave number		Shorter wavelength	C Low energy
6.		No. o ≡ <i>CH</i>		ma ar	nd Pi bonds in Eth	nyne		2 Sign Pi bon	na and 3 ids	3	3 Sigma and 2 Pi bonds	0	5 Sigma and 3 Pi bonds	3 Sigma and 5 Pi bonds
7.	Ident angle		e spe	cies	with maximum b	ond		CH_4		0	NH_3	0	H_2O	\bigcirc H_2S
8.	In lea	ad sto	rage b	attery	v electrolyte is:		0	30% <i>F</i>	HCl	0	30% <i>HNO</i> ₃	0	30%H ₂ SO ₄	○ 30% <i>HBr</i>
9.	exoth temp	nermic	react e of s	ion, w syster	eli <mark>er</mark> 's Principle, ir /hat should be dor n to obtain maxir ?	ne to	0	Kept L	_OW	0	Kept High	0	Kept Same	Temperature has no effect
10.	highe		te of		's law which one sion? (M. Wt, S		0	SO_2			SO_3		H_2S	○ SCl ₂

Electric current can pass through graphite in one direction but not through other direction \bigcirc Allotropy of crystal, such a property is called: 12. Which one is conductor but not mallable? Iron \bigcirc Graphite \bigcirc Silver \bigcirc Copper 13. Which of the following Concentration Units \bigcirc Molarity \bigcirc Molality \bigcirc $0.0001M$ \bigcirc $0.0001M$ \bigcirc Molarity \bigcirc Mola
13. Which of the following Concentration Units \bigcirc Molarity \bigcirc Molarity \bigcirc % $\frac{v}{v}$ \bigcirc % $\frac{m}{v}$ 14. Which of the following will contain lowest \bigcirc
Which of the following will contain lowest \bigcirc CH_4 \bigcirc HF \bigcirc NH_3 \bigcirc H_2O 15. A solution of HCI having $pH = 4$ will be: \bigcirc $0.4M$ \bigcirc $4.0M$ \bigcirc $0.0001M$ \bigcirc $0.0004M$ $K_c = 0.04$ at $723K$ for following reaction $PCl_{5(g)} \rightleftharpoons PCl_{3(g)} + Cl_{2(g)}$ \bigcirc 0.04 \bigcirc 0.04
vapor pressure at 50°C? 15. A solution of HCl having $pH = 4$ will be:
$K_c = 0.04 \text{ at } 723K \text{ for following reaction}$ $PCl_{5(g)} \rightleftharpoons PCl_{3(g)} + Cl_{2(g)}$ 0.04 2.37 0.64 0.40
$PCl_{5(g)} \rightleftharpoons PCl_{3(g)} + Cl_{2(g)} \qquad \bigcirc 0.04 \qquad \bigcirc 2.37 \qquad \bigcirc 0.64 \qquad \bigcirc 0.40$
16. () 0.04 () 0.40
K_p of the reaction will be:
where ($R = 0.082 \text{ atm } dm^3 \text{ mol}^{-1} K^{-1}$)
In a mixture containing $44g$ each of CO_2 , SO_2 , SO_3 and Cl_2 gases, which of the 17. following will have highest partial CO_2 Cl_2 pressure according to Dalton's Law? (where molar masses CO_2 =44, SO_2 =64, SO_3 =80, Cl_2 =71)
SUPPLEMENTARY TABLE
Atomic No 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 Symbol H He Li Be B C N O F Ne Na Mg Al Si P S Cl Ar K
Symbol H He Li Be B C N O F Ne Na Mg Al SI F S CI Al R Mass No 1 4 7 9 11 12 14 16 19 20 23 24 27 28 31 32 35.5 40 39

____1HA-I 2209-7091 (HA) —

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