STD: XI	ONE MARK T	TEST – 4	Marks: 35
A The same	CHEMISTI	RY	Time: 45 Min.
1. The group of elements in which the	differentiating electron enters	the anti penultimate shell	of atoms are called
a) p-block elements	b) d-block elements	c) s-block elements	d) f-block elements
2. The elements with atomic numbers a) d-block		as a literate	
	b) f-block	c) p-block	d) s-block
3. Which of the following elements w a) Chlorine	b) Nitrogen	c) Cesium	A Flueday
4. A property which progressively inc			d) Fluorine
a) Ionization enthalpy	reases down a group in the per	b) Electronegativity	
e) Electron gain enthalpy		d) Strength as a reducing agent.	
		a, brieflight he a rede	Altra
5. In the third period, the first ionizate a) Na > Al > Mg > Si > P	ion potential is of the order.		
e) Mg > Na > Si > P > Al		b) $Na < Al < Mg < Si < P$	
6. The law of triad is applicable to :		d) Na< ∆1 < Mg < 1	P < S1
a) Chlorine, bromine and iod	ine	b) Hydrogen, oxyg	on and hiltenne
e) Sodium, neon and calcium		d) All of the above	
	- 900		
7. Identify the wrong statement.	and the second		
b) Amongst the isoelectric eneci-	species, smaller the positive	charge on cation, smaller	is the ionic radius
c) Atomic radius of the alam	es greater the negative charge	on the anion, larger is the	e ionic radius
d) Atomic radius of the clem	ents increases as one moves d	lown the first group of the	periodic table
d) Atomic radius of the elem	ents decreases as one moves	across from left to right in	n the 2 <sup>nd</sup> period of
	ho amallast alaura (*		
8. Excluding hydrogen and helium, the a) lithium	h) O		
	b) Oxygen	c) Fluorine	d) Chlorine
9. The correct order of electron gain	enthalpy with negative sign of	of F, Cl, Br and I having	atomic number 9, 17, 35
and 53 respectively is		A LANGE	
a) $I > Br > Cl > F$	b) $F > Cl > Br > I$	c) Cl > F > Br >	I d) Br>I>Cl>F
10. Which of the following is the light	htest metal?		3) 21
a) Calcium	b) Lithium	c) Magnesium	d) Sodium
11. Which one of the following is the	e least electronegative eleme	nt?	<b>a</b> ) <b>Sodian</b> :
a) Bromine	b) Chlorine	c) Iodine	d) Hydrogen
12. With respect to chlorine, hydroge	en will be		d) Hydrogen
a) Electropositive	b) Electronegative	c) Neutral	d) None of these
13. How does electron affinity change		o right in a seried:	d) None of these.
a) Generally increases	Se when we move hom left		
c) Remains unchanged		b) Generally decreases	
o) Remains unchanged		d) First increas	ses and then decreases
14. Halogens belong to the:			
a) s-block	b) p-block	c) d-block	d) f blook
15. IE <sub>1</sub> and IE <sub>2</sub> of Mg are 179 and 34	48 kcal mol <sup>-1</sup> re-pectively.	The energy required for	d) f- block
$Mg \rightarrow Mg^{2+} + 2e^-$ is	to kear more to pectively.	the energy required for	the reaction
a) +169 kcal mol <sup>-1</sup>	b) 160111.1		
	b) -169 1ccal mol-1	c) +527 kcal	mol <sup>-1</sup> d) -527 kcal mol
16. If K <sub>b</sub> and K <sub>f</sub> for a reversible reac	tions are $0.8 \times 10^{-3}$ and $1.6$	x 10 <sup>-4</sup> respectively, the	value of the equilibrium
constant is,			
a) 20	b) 0.2 x 10 <sup>-1</sup>	c) 0.05	d) none of thes
17. In which equilibrium pressure ha	as no effect		
a) $PCl_{5(g)} \leftrightarrow PCl_{3(g)} + Cl_{2(g)}$		Ы <b>Н</b> ⊥ I	V 2011
c) $2SO_{2(g)} + O_{2(g)} \leftrightarrow 2SO_{3(g)}$		b) $H_{2(g)} + I_{2(g)}$	
$0,2002(g),02(g) \leftrightarrow 2303(g)$		d) NH <sub>4</sub> Cl <sub>(g)</sub>	$\leftrightarrow$ NH <sub>3(g)</sub> + HCl <sub>(g)</sub>

18. The formation of ammonia from	n Notal and Hotal is a reversi	ble reaction Note) + 311(g) = 21	VII.(g) + Heat	
What is the effect of increase of	Ctennerature on this squilly	ium reaction		
n) equilibrium is unaltered		b) formation of ammor	ild in favoured	
a) amilliology is shifted to	the left	d) reaction rate does no	of change	
19. In an equilibrium reaction $\Pi_1(g)$	1) 4 L(n) # 211(n), All = -30	Of calories, which factor favours	dissociation of HIV	
a) Low temperature	b) High pressure	e) High temperature	d) Low pressure	
The second secon	Lawrence statement?			
A Die a avetam at mattiliti	um. O is always less than the	a equilibrium constant		
			w astent	
an noncoura of catalyst affe	ects both the forward reaction	n and reverse reaction to the same		
d) Equilibrium constant vi	their with temperature		<b>一个人的</b>	
21. A chemical reaction is at equil-	tely transformed into prod	lucts // /		
n) Reactants are complete	and backward reactions a	re equal		
e) Formation of product	(s is minimized			
e) Formation of product	netants and products are pa	resent		
a) Equal amounts of rea	the same and products are pa			
22. $\frac{K_C}{K_P}$ for the reaction, $N_2(g) + 3$	(12 (g) == 21413 (g) 18		d) (RT)	
$n)\frac{1}{kT}$	b) $\sqrt{RT}$	c) RT'	9,0,7	
23. In the heterogenous equilibriu	$m CnCO_{3(n)} \leftrightarrow CnO_{(n)} + CO_2$	guthe Keq value is given by		
a) partial pressure of Co	O2.3	b) activity		
and the second		d)[CaO]/[CaCO	3]	
24 If x is the fraction of PCIs dis	sociated at equilibrium in the	ne reaction $PCl_5 \rightleftharpoons PCl_3 + Cl_2$	then starting with 0.5	
mole of PC $l_5$ , the total number	er of moles of reactants and	products at equitorian		
a) 0.5 - x	b) $x + 0.5$	c).2x + 0.5	d) x + 1	
25. For which of the following K	p is less than Kc?			
a) $N_2O_4 \rightleftharpoons 2NO_2$			b) $N_2 + 3H_2 = 2NH_3$	
211 11 2111		d) $CO + H_2O =$	$= CO_2 + H_2$	
26. In the reaction, Fe (OH) <sub>3</sub> (s) =	$\rightarrow \text{Fe}^{3+}(2\alpha) + 3OH^{-}(2\alpha)$ , if t	he concentration of OH- ions i	is decreased by 1/4 times,	
then the equilibrium concentr	ration of Fe <sup>3+</sup> will			
a) not changed		b) also decrease	ed by 1/4 times	
c) increase by 4 times		d) increase by 6	64 times	
27. Theory of 'active mass' indic	cates that the rate of chemic	cal reaction is directly proport	ional to the	
		b) Properties	of reactants	
a) Equilibrium constan			ion of reactants	
c) Volume of apparatu	is	A CONTRACTOR OF THE STATE OF TH		
28. For the formation of two mo			is Ki. The equilibrium	
constant for the dissociation	of one mole of SO <sub>3</sub> into S		精 ( ) ( ) ( )	
a) $\frac{1}{\kappa}$	b) K <sub>1</sub> <sup>2</sup>	c) $\left(\frac{1}{K_1}\right)^{1/2}$	d) $\frac{K_1}{2}$	
		사람이 많아보다 어린다는 말이 그리면 그리는 그리는 사람이 그 모두 바로보다 그 그 그	2	
29. Under a given set of experin	nental conditions, with an	increase in the concentration	of the reactants, the rate of	
chemical reaction				
a) Decreases		b) Increases		
			and then increases	
c) Remains unaltere		A section of the sect	eases and then increases	
30. Equimolar concentrations of		- and the second of the second		
<b>国际政治的</b>		constant for both forward and		
a) 33%	b) 66%	c) (33) <sup>2</sup> %	d) 16.5%	
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1- M	Answer Ke	y 30- m	arks
12 d)	13,0,	245 5)	Ti s
	(A) (b)	25) b)	
2) ()	(5) ()	26, 3)	
3, 2)	163 03	271 0)	(4)
A) b)	(7) a)	28) C)	L.
5 , 5)		29, 6,	(
6,300	187 6)	30) a) '	1
7) (2)	191 (2)	15	. 1
8 2 4	201 91	31) - ()	(
9; 4)	27 (6)	3/21	) Coll
10 / b)		148	1
(1 > &)	22) A)	3/43	6 (a)
125 a)	23) c)	351	(1)
			6(81%
	P. Prakash	M.Se , B. Ed	201
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			21