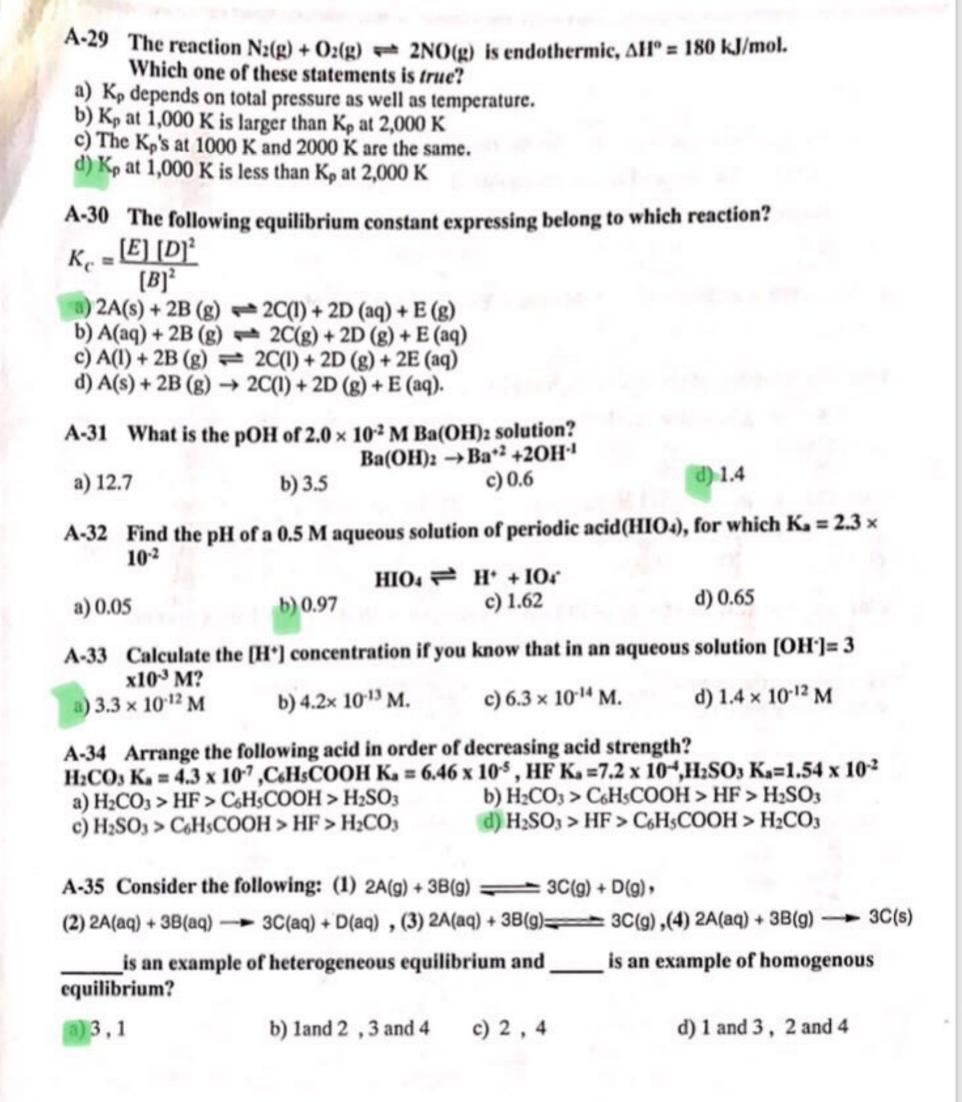


Choose the correct answer

A-1	The correct form	nula of a compound con	sists of N and Ca:	
a) Ca ₃ N ₃		b) Ca ₂ N ₃	c) Ca ₃ N ₂	d) CaN
A-2	In the process of referred to as t	dissolving 1 g of sodium	n chloride in 100 ml	of ethanol, the ethanol is
a) p	recipitate	b) solution	c) solute	d) solvent
A-3	The systematic r	name for IFs is:		
		b) Iodine pentafluoride	c) Iodine fluoride	d) monoiodine fluoride
A-4	2.4x103- mm equ	ial to 2.4 ?		*
a) µ		b) Mm	c) Tm	d) pm
A-5	An example of r	nonatomic ion is		
a) N		р) ОН ₁ -	c) O ² ·	d) C
A-6	What is the perc	cent of phosphorus (P) i	n Mg3(PO4)2?	
	3.66 %	b) 43.7 %	c) 11.8 %	d) 18.5 %
A-7	An analysis of u	nknown compound give	es the following perce	entage: 13.5% C, 2.25%
	H, and 84.27%	As, what is the empiric	cal formula of the cor	mpound?
a) C	3HAs ₂	b) C ₂ H ₄ As	c) CH ₂ As	d) C ₂ H ₆ As
A-8	After balancing	the following hypothet	ical reaction, the coe	fficient of Co is
	_		$C_2 \rightarrow AC_2 + B_2C$	
a) 1		b) 9	c) 2	d) 6
A-9	The element (B)	is classified as	A LO LA MA	
a) m	etalloid	b) metal	c) nonmetal	d) transition metal

A-10 Ma	And the second second				
			$nO_2(s) \rightarrow 3Mn(l) + 2A$		
If	130 g of A	I reacted with excess	amount of MnO2, calcu	late the amount of Mn	
pr	roduced?			D 162.2 a	
a) 198.6	g	b) 202.3 g	c) 220.2 g	d) 163.2 g	
			u	numbers for an electron?	
A-11 W	hich one o	f the following is an a	b) $n=1$, $l=1$, $m_l=1$	numbers for an electron? $2, m_s = \frac{1}{2}$	
a) n=3, $l=2$, $m_l=3$, $m_s=\frac{1}{2}$ c) n=4, $l=2$, $m_l=1$, $m_s=-\frac{1}{2}$			d) $n=2$, $l=1$, $m_l=0$, $m_s=1$		
c) n=4, l=	$=2, m_l=1, l$	$n_3 = -\gamma_2$	-,		
			a u des electron conf	figuration located in the	
A-12 W	here would	the element with the	following electron com	figuration located in the	
			od4 c) group 4A, perio		
a) group	7A, period	4 b) group 3A, peri	004 0/8.04		
A-13 Pic	k out the c	orrect statement from	n the following:		
a) Alkali	metals have	e the highest electron a	iffinity		
b) Alkali	earth metal	s have the highest elec	ctron affinity		
_ Uj Mikali	Curtin motor	0.01	14		
c) Haloge	ns have the	highest electron affin	ity		
d) Haloge	ns have the ases have the	highest electron affin he highest electron affi	nity.	Company to	
d) Haloge d) Inert ga A-14 A g add	as sample led to the s	chighest electron affine highest electron affine highest electron affine containing 1.50 mol at the cases to 750 torr, how	nity. nt 25 °C exerts a pressure temperature is increased many moles of gas were	re of 400 torr. Some gas is ased to 50 °C. If the re added to the container?	
d) Inert ga A-14 A g add pres Ass	as sample led to the s ssure incre ume a con	chighest electron affine highest electron affine highest electron affine containing 1.50 mol at ame container and the eases to 750 torr, how stant-volume contain	nity. nt 25 °C exerts a pressure temperature is increased many moles of gas were		
A-14 A g add pres Ass a) 4.1 mol	as sample led to the s ssure incre ume a con	chighest electron affine highest electron affine highest electron affine containing 1.50 mol a same container and the eases to 750 torr, how stant-volume contain b) 0.39 mol	nity. nt 25 °C exerts a pressure temperature is increased many moles of gas were er c) 2.6 mol	re added to the container?	
A-14 A g add pres Ass a) 4.1 mol	as sample led to the s ssure incre ume a con	chighest electron affine highest electron affine highest electron affine containing 1.50 mol as ame container and the eases to 750 torr, how stant-volume contain b) 0.39 mol	nity. nt 25 °C exerts a pressure temperature is increased many moles of gas were er c) 2.6 mol	re added to the container?	
A-14 A g add pres Ass a) 4.1 mol	as sample led to the same a concurrence a co	chighest electron affine highest electron affine highest electron affine containing 1.50 mol as ame container and the eases to 750 torr, how stant-volume contain b) 0.39 mol molar mass of unknownHg?	nity. nt 25 °C exerts a pressure temperature is increased many moles of gas were er c) 2.6 mol	d) 1.1 mol with a density of 0.8 g/L at	
A-14 A g add pres Ass a) 4.1 mol A-15 Calc 25 ° a) 0.02 g/n	as sample led to the same increased to the same increased to the same a concurrence and 862 mol	containing 1.50 mol a make containing 1.50 mol a make container and the makes to 750 torr, how stant-volume contain b) 0.39 mol molar mass of unkno mmHg? b) 44.1 g/mol	nity. at 25 °C exerts a pressure temperature is increased many moles of gas were er c) 2.6 mol wn gaseous compound (2) 17.2 g/mol	d) 1.1 mol with a density of 0.8 g/L at d) 1.4 g/mol	
A-14 A g add pres Ass a) 4.1 mol A-15 Calc 25 ° a) 0.02 g/n A-16 An I	as sample led to the same increased to the same increased to the same a conculate the C and 862 mol	chighest electron affine highest electron affine highest electron affine containing 1.50 mol at ame container and the eases to 750 torr, how stant-volume contain b) 0.39 mol molar mass of unknommHg? b) 44.1 g/mol station broadcasts at	nity. at 25 °C exerts a pressure temperature is increased many moles of gas were er c) 2.6 mol wn gaseous compound (2) 17.2 g/mol	d) 1.1 mol with a density of 0.8 g/L at d) 1.4 g/mol	
A-14 A g add pres Ass a) 4.1 mol A-15 Calc 25 ° a) 0.02 g/n A-16 An I	as sample led to the same increased to the same increased to the same a conculate the C and 862 mol	containing 1.50 mol a man containing 1.50 mol a man containing 1.50 mol a man container and the mass to 750 torr, how stant-volume contain b) 0.39 mol molar mass of unkno mmHg? b) 44.1 g/mol matter and the man contain and	nity. nt 25 °C exerts a pressure temperature is increased many moles of gas were compound with gaseous compound with a gaseous compound of the compound of th	d) 1.1 mol with a density of 0.8 g/L at d) 1.4 g/mol e wavelength of the	
A-14 A g add pres Ass a) 4.1 mol A-15 Calc 25 ° a) 0.02 g/n A-16 An I	as sample led to the same increased to the same increased to the same a conculate the C and 862 mol	containing 1.50 mol a make containing 1.50 mol a make container and the makes to 750 torr, how stant-volume contain b) 0.39 mol molar mass of unkno mmHg? b) 44.1 g/mol	nity. at 25 °C exerts a pressure temperature is increased many moles of gas were er c) 2.6 mol wn gaseous compound (2) 17.2 g/mol	d) 1.1 mol with a density of 0.8 g/L at d) 1.4 g/mol	
A-14 A g add pres Ass a) 4.1 mol A-15 Calc 25 ° a) 0.02 g/n A-16 An I corr a) 0.24 m	as sample led to the same increased to the same a conculate the C and 862 nol	chighest electron affine highest electron affine highest electron affine highest electron affine containing 1.50 mol agrees to 750 torr, how stant-volume contain b) 0.39 mol molar mass of unknommHg? b) 44.1 g/mol station broadcasts at radio waves? b) 4.1 m	nity. nt 25 °C exerts a pressure temperature is increased many moles of gas were c) 2.6 mol wn gaseous compound wn gaseous compound co 17.2 g/mol 73.2 MHz. Calculate the c) 2.2 x 10 ¹⁶ m	d) 1.1 mol with a density of 0.8 g/L at d) 1.4 g/mol e wavelength of the	
A-14 A g add pres Ass a) 4.1 mol A-15 Calc 25 ° a) 0.02 g/n A-16 An I corr a) 0.24 m A-17 An e	as sample led to the same increased to the same a conculate the C and 862 nol	chighest electron affine highest electron affine highest electron affine highest electron affine containing 1.50 mol agrees to 750 torr, how stant-volume contain b) 0.39 mol molar mass of unknommHg? b) 44.1 g/mol station broadcasts at radio waves? b) 4.1 m	nity. at 25 °C exerts a pressure temperature is increased many moles of gas were compound of the compound of	d) 1.1 mol with a density of 0.8 g/L at d) 1.4 g/mol e wavelength of the	
A-14 A g add pres Ass a) 4.1 mol A-15 Calc 25 ° a) 0.02 g/n A-16 An I corr a) 0.24 m	as sample led to the same increased to the same a conculate the C and 862 nol	chighest electron affine highest electron affine highest electron affine highest electron affine containing 1.50 mol agrees to 750 torr, how stant-volume contain b) 0.39 mol molar mass of unknommHg? b) 44.1 g/mol station broadcasts at radio waves? b) 4.1 m	nity. nt 25 °C exerts a pressure temperature is increased many moles of gas were c) 2.6 mol wn gaseous compound wn gaseous compound co 17.2 g/mol 73.2 MHz. Calculate the c) 2.2 x 10 ¹⁶ m	d) 1.1 mol with a density of 0.8 g/L at d) 1.4 g/mol e wavelength of the d) 4.1x10 ⁶ m	
A-14 A g add pres Ass a) 4.1 mol A-15 Calc 25 ° a) 0.02 g/n A-16 An I corr a) 0.24 m A-17 An e a) Cl-Cl	as sample led to the same increased to the same a conculate the C and 862 nol	chighest electron affine highest electron affine highest electron affine highest electron affine containing 1.50 mol assess to 750 torr, how stant-volume contain b) 0.39 mol molar mass of unknommHg? b) 44.1 g/mol station broadcasts at radio waves? b) 4.1 m polar covalent bond b) H-F	nity. at 25 °C exerts a pressure temperature is increased many moles of gas were compound of the compound of	d) 1.1 mol with a density of 0.8 g/L at d) 1.4 g/mol e wavelength of the d) 4.1x10 ⁶ m d) K-I	
A-14 A g add pres Ass a) 4.1 mol A-15 Calc 25 ° a) 0.02 g/n A-16 An I corr a) 0.24 m A-17 An e a) Cl-Cl A-18 Whice	as sample led to the same increased to the same a conculate the C and 862 nol	chighest electron affine highest electron affine highest electron affine highest electron affine containing 1.50 mol assess to 750 torr, how stant-volume contain b) 0.39 mol molar mass of unknommHg? b) 44.1 g/mol station broadcasts at radio waves? b) 4.1 m polar covalent bond b) H-F	nity. nt 25 °C exerts a pressure temperature is increased many moles of gas were c) 2.6 mol wn gaseous compound wn gaseous compound c) 17.2 g/mol 73.2 MHz. Calculate the c) 2.2 x 10 ¹⁶ m is c) Li-Br	d) 1.1 mol with a density of 0.8 g/L at d) 1.4 g/mol e wavelength of the d) 4.1x10 ⁶ m d) K-I	
A-14 A g add pres Ass a) 4.1 mol A-15 Calc 25 ° a) 0.02 g/n A-16 An I corr a) 0.24 m A-17 An e a) Cl-Cl A-18 Which a) Br	as sample led to the same increased to the same increased to the same a conculate the C and 862 mol FM radio sample of example of the formal concurrence to the formal concur	containing 1.50 mol as ame containing 1.50 mol as ame container and the ases to 750 torr, how stant-volume contain b) 0.39 mol molar mass of unknommHg? b) 44.1 g/mol station broadcasts at a radio waves? b) 4.1 m polar covalent bond b) H-F ollowing when acting	nity. at 25 °C exerts a pressure temperature is increased many moles of gas were c) 2.6 mol wn gaseous compound co) 17.2 g/mol 73.2 MHz. Calculate the c) 2.2 x 10 ¹⁶ m is c) Li-Br as central atom could to B	re added to the container? d) 1.1 mol with a density of 0.8 g/L at d) 1.4 g/mol e wavelength of the d) 4.1x10 ⁶ m d) K-I not expand it octet ?	

	The electron e]2s ² 2p ³	b) [Ne]3s ² 3p ³	c) [Ar]3s ² 3p ³	d) $[Ar]4s^24p^3$
If an	equilibrium m	tion at equilibrium; S fixture contains 8.0 mol filibrium constant (Kc)	of S2O6F2, 4.0 mol. of	$(g) + F_2(g)$ of SO ₃ and 2.0 mol. of F ₂ in
a) 0.2		b) 1.0	c) 4.0	d) 0.50
A-22		$^{\circ}$ K _P at 27°C is 5.0 x10 ⁻³² N ₂ (g) + O ₂ (g) \rightleftharpoons 2		
	he partial pro	essure of NO at equilibratm and 5.0 atm respec	ium if N2 and O2 have tively.	- control - cont
a) 2.5	5 x10 ⁻¹⁵ atm	b) 6.25 x10 ⁻³⁰ atm	c) 5.0 x10 ¹⁶ atm	d) 2.5 x10 ³³ atm
		Kc for the above quest		
a) is	more than the	value of Kp	b) is less than the	value of Kp
c) is	the same as the	e value of K _P	d) cannot be calc	ulated at this temperature
A-24	For the follo	wing equilibrium react	ion; 2 NH ₃ (g) ; K _c =	6.25 x10 ⁻²
mixtu	re of 4.0 M N	n in which the reaction 2, 4.0 M H ₂ & 4.0 M NI	will proceed to reach	the equilibrium in a
		proceeds to left	b) the reaction wi	A STATE OF THE PARTY OF THE PAR
c) the	system will s	till be at equilibrium	d) the reaction wi	ill proceeds to right
A-25	3	From constant for the for $SO_3(g) \rightleftharpoons 3SO_2(g) \rightleftharpoons SO_3(g) \rightleftharpoons 3/2O_2(g) \rightleftharpoons 3/2O_2(g)$	3/2 O ₂ (g) K ₁	$= 1.25 \times 10^{-4}$
		188		= 8
What		f the equilibrium const $(x) + 3 \text{ NO } (g) \rightleftharpoons 3 \text{ SO}_2$		=??
a) 1.0	0×10^{3}	b) 1.0 x10 ⁻³	c) 1.0 x10 ⁻¹	d) 1.0 x10 ⁻²
A-26		conjugate base of HPO		
	HCO3	+ HPO42- == H2CO3	+ PO43-	
a) H ₂	0	b) HCO3°	c) H ₂ CO ₃	d) PO ₄ 3.
a) H	Which one of Cl (strong acid Br (weak acid)	TO ALCOHOLOGICAL CONTROL OF THE CONT	b) H ₂ SO ₄ (strong d) HF (weak ac	ig acid)/K ₂ SO ₄
A-28	Calculate th	e pH of a buffer solutio	n that contains 0.25 M	I benzoic acid (C ₆ H ₅ CO ₂ H)
a) 1.3	and 0.15 M	sodium benzoate (C ₆ H ₅ b) 4.41		
-,	STOR	- A - 1 1 5 7 1	-55/5/	SOMEONICS



A-36 The equilib	rium constant, $\mathbf{K}_{\mathfrak{p}}$, for	the reaction 2A ₂ (g)+3B	(s) D (g), is 4.7 x 10-4
at 415°C.	The value of K _P for the	equilibrium 2D (g)=	± 4A ₂ (g)+6B (s) at the same
temperatu	re is		
a) 1.2x10 ⁻⁹	b) 4.53x106	c) 4.7x10 ⁻⁴	d) 1.4x10 ¹⁰
A-37 A 0.040 M	monoprotic acid solutio	n is 3% ionized. Its Ka	value is .
a) 0.36	b) 1.5x10 ⁻²	c) 3.6x10 ⁻⁵	d) 2.4x10 ⁻⁴
A-38 The solubil	ity of the ionic compour	nd M2X, having a mola	r mass of 288 g/mol, is
4.1x10 ⁻⁶ g/	L. Calculate the Ksp of	the compound M V/o	==== 2M ⁺¹ (aq) + X ⁻² (aq
a) 1.15x10 ⁻²⁵	b) 4.5x10 ⁻⁴⁰	c) 2.1x10 ⁻³⁸	d) 3.6x10 ⁻³⁰
A-39 The equilib	rium constant Kp is no	t applicable for the read	ction
a) $N_2(g) + 3H_2(g)$ c) $2CO_2(g) \leftrightarrow 2C$	+→ ZNH3(0)	b) C ₆ H ₅ COOH(a	$(q) \leftrightarrow C_6H_5COO^-(aq)+H^+(aq)$ $(q) \leftrightarrow CO(g) + H_2(g)$
A-40 The equilib	prium $PCl_5(g) \leftrightarrow PCl_3(g)$) + Cl ₂ (g), can be shifte	d toward more product
formation	by $\Delta H = 92.5 \text{ k}$	J	F-1-1-1-1
a) decreasing the c) decreasing the	pressure	b) decreasing the d) Adding PCl ₃	volume