IA H										VIIIA He 2							
1.01	IIA											IIIA	IVA	VA	VIA	VIIA	4.00
Li	Be	ľ										В	C	N	0	F	Ne
3	4											5	6	7	8	9	10
6.94	9.01	l,										10.81	12.01	14.01	16.00	19.00	20.18
Na	Mg											AI	Si	P	S	CI	Ar
11	12	Market Services										13	14	15	16	17	18
22.99	24.31	IIIB	IVB	VB	VIB	VIIB	VIIIB	VIIIB	VIIIB	IB.	IIB	26.98	28.09	30.97	32.07	35.45	39.95
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
39.10	40.08	44.96	47.88	50.94	52.00	54.94	55.85	58.93	58.69	63.55	65.39	69.72	72.61	74.92	78.96	79.90	83.80
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	[[]	Xe
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
85.47	87.62	88.91	91.22	92.91	95.94	(97.9)	101.07	102.91	106.42	107.87	112.41	114.82	118.71	121.76	127.60	126.90	131.29
Cs	Ba	La	Hf	Ta	W	Re	Os	lr	Pt	Au	Hg	TI	Pb	Bi	Po	At	Rn
55	56	57	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86
132.91	137.33	138.91	178.49	180.95	183.85	186.21	190.2	192.22	195.08	197.97	200.59	204.38	207.2	208.98	(209)	(210)	(222)
Fr	Ra	Ac	Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Uub	Uut	Uuq	Uup	500		
87	88	89	104	105	106	107	108	109	110	111	112	113	114	115			
223.02	226.03	227.03	(261)	(262)	263)	(262)	(265)	(266)	(271)	(272)	(285)	(284)	(289)	(288)			
		3	3735 33-1	9571 EV	2032		669	0000 1000	1976s 1467	3.93	3725	1674 C.P.	(COC) 12:00	200			
				C	To the second			in a second		-	100	V ₁₀	7.			271	

Ce

58

Th

Pr

59

91

140.12 140.91

Nd

60

144.24

U

92

232.04 231.04 238.03 237.05

Pm

61

(145)

Np

93

Sm

62

150.36

(240)

Eu

63

152.97

Am

95

243.06

Gd

64

157.25

Cm

96

(247)

Tb

65

158.93

Bk

97

(248)

Dy

66

162.50

Cf

98

(251)

Нο

67

164.93

Es

99

252.08 257.10

Er

68

167.26

Fm

100

Tm

69

168.93

Μd

101

(257)

Υb

70

173.04

No

102

259.10 262.11

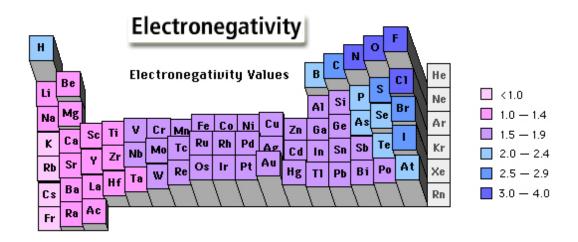
Lu

71

174.97

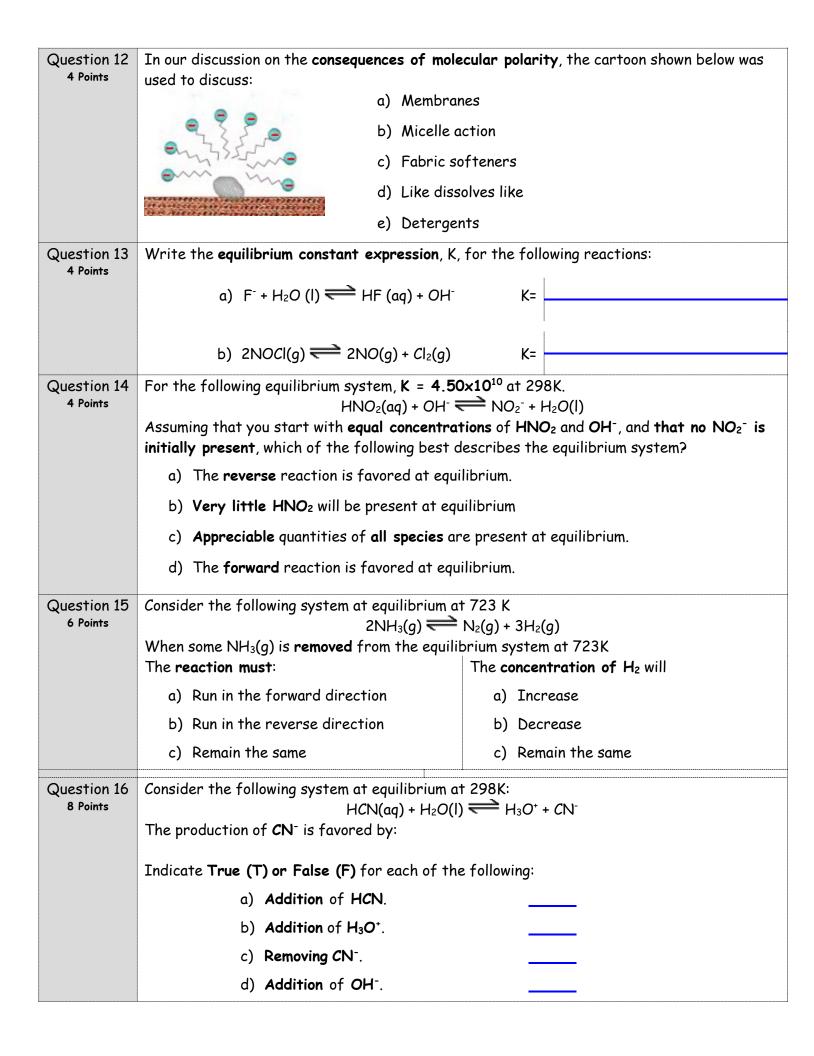
Lr

103



SID	Last	First								
Question 1 6 Points	The following questions pertain to the Lewis Dot structure depicted on the left a) With respect to the central nitrogen atom: i. The number of lone pairs:									
	ii. The number of single bonds:iii. The number of double bonds:									
	b) How many equivalent Lewis Structures does the nitrite ion have?									
Question 2	Draw a Lewis structure for each of the following where the central atom obeys the octet rule.									
	N ₂	NCl ₃ (Cl = Chlorine)								
	NOF	CN ⁻								
Question 3 12 Points	Draw a Lewis structure for each of t your diagram to answer the questions	he following organic molecules on the left. Then use on the right.								
(6 Points)		Count double bonds as 2 bonds for this structure only.								
		a) The number of C-H bonds								
		b) The number of C-C bonds								
		c) The number of C-O bonds								
(6 Points)	C ₂ H ₄	a) The number of C-H bonds								
		b) The number of C-C single bonds								
		c) The number of C=C double bonds								
Question 4	a) Name of the compound with th	ne formula N₂O?								
	b) Name of the compound with th	ne formula 50 2?								
	c) Formula for dinitrogen tetraoxide?									

Question 5 4 Points	Draw all resonan	ce structures for HCO2 ⁻ :
Question 6 6 Points		The following questions pertain to the Lewis Structure of SeH ₂ depicted on the left:
	H—Se—H	a) The electron-pair geometry around Se is:
		b) The molecular geometry around Se is:
Question 7 6 Points	a) What is th	ne electron-pair geometry about N in NICl ₂ :
.	b) What is th	ne molecular geometry about N in NICl₂ :
	Note:- (C	Cl = Chlorine)
Question 8 6 Points	H :0: H—C——C——0 1 2	What is the molecular geometry about: a) Atom 1: b) Atom 2: c) Atom 3:
Question 9 6 Points	н :0: н——с——с— 1 н	The predicted bond angle about: a) Atom 1: b) Atom 2: c) Atom 3:
Question 10 4 Points	1 3 N 2	What is the predicted bond angle about the following atoms? a) Carbon 1 b) Nitrogen 2
Question 11 6 Points	Label the following formula)	ng molecules as polar or nonpolar . (The central atom is given first in the
	a) NOCI (CI:	= Chlorine)
	b) N ₂	
	c) SCl ₂ (Cl =	Chlorine)



Do	Not Write Below	This	
Exam II Score			