

FINAL TOTAL POINTS: 111**O. CHAPTER 17 ASSIGNED TXTBOOK PROBLEMS GRADING**

	NUMBER	PAGE	TYPE	POINTS
HEADING				7
PROBLEMS				
	11	508		
	11a		H₂SO₄	1
	11b		H₅O₄¹⁻	1
	11C		HClO₄	1
	11D		H₃PO₄	1
	13	508		
	13A		HS¹⁻	1
	13B		S²⁻	1
	13C		NH₂¹⁻	1
	13D		HSO₃¹⁻	1
	15		476	
	15A		H₂SO₃ + H₂O \leftrightarrow HSO₃¹⁻ + H₃O¹⁺	2
	15B		HCO₃¹⁻ + H₂O \leftrightarrow H₂CO₃ + OH¹⁻	2
	15C		H₂CO₃ + H₂O \leftrightarrow HCO₃¹⁻ + H₃O¹⁺	2
	15D		PO₄³⁻ + H₂O \leftrightarrow HPO₄²⁻ + OH¹⁻	2
	21	509		2
	25	509	A AND B	2
	31	509		
	31A		1.7 X 10⁻⁷; ACIDIC	2
	31B		1.1 X10⁻⁹; BASIC	2

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ITEM	NUMBER	PAGE	TYPE	POINTS
	31C		1.4 X 10⁻⁸; BASIC	2
	31D		7.0 X 10⁻³; ACIDIC	2
	33		509	
	33A		1.1 X 10⁻⁸; ACIDIC	2
	33B		8.4 X 10⁻⁸; ACIDIC	2
	33C		1.4 X 10⁻⁸; ACIDIC	2
	33D		1.0 X 10⁻⁷; NEUTRAL	2
	41	510		
	41A		1.283	2
	41B		11.156	2
	41C		6.384	2
	41D		9.001	2
	45	510		
	45A		9.68; BASIC	2
	45B		5.10; ACIDIC	2
	45C		12.19; BASIC	2
	45D		0.9; ACIDIC	2
	49	477		
	49A		9.8 X 10⁻¹⁰	2
	49B		1.3 X 10⁻⁷	2
	49C		9.5 X 10⁻²	2
	49D		1.0 X 10⁻⁷	2
	53	510		
	53A		1.321	2
	53B		9.44	2

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ITEM	NUMBER	PAGE	TYPE	POINTS
	53C		11.99	2
	53D		7.907	2
	57	511		
	57A		$[H^{1+}] = 1.04 \times 10^{-4}$; pH = 3.983	2
	57B		$[H^{1+}] = 3.01 \times 10^{-3}$; pH = 2.521	2
	57C		$[H^{1+}] = 5.41 \times 10^{-4}$; pH = 3.267	2
PROBLEMS	57D		$[H^{1+}] = 6.42 \times 10^{-2}$; pH = 1.192	2
	63	511		
	63A		NOT A BUFFER	1
	63B		A BUFFER	1
	63C		A BUFFER	1
	63D		NOT A BUFFER	1
	91	512		
	91A		$H_2PO_4^{1-}$	1
	91B		CO_3^{2-}	1
	91C		F^{1-}	1
	91D		HSO_4^{1-}	1
	97	512		
	97A		1. 2.827; ACIDIC	2
	97B		10.816; BASIC	2
	97C		8.008; BASIC	2
PROBLEM	97D		4.872 ;ACIDIC	2

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ITEM	NUMBER	PAGE	TYPE	POINTS
	103	513		
	103A		7.9×10^{-14}	3
	103B		0.13	3
	103C		2×10^{-4}	3
	103D		4.7×10^{-6}	3