CHM 1001 General Chemistry

Assignment Answers

Name: Yohandi ; Studen	nt ID: 120040025
------------------------	------------------

art 1: Multiple-choice questions Question No.	Answers
ı	E
2	В
3	C
4	80
5	18 A
6	C
7	D .
8	8 E
9	€ C
10	D
11	C
12	E
13	D
14	В
15	.D
16	A
17	Α
18	C
19	С
20	E
Grades	

Part 2: Short answer questions (You can add pages if needed)

1.
$$m_1 C_1 \Delta T_1 = m_2 C_2 \Delta T_2$$

250 4,184 (78-76,9) = m (0,129) (76,9-2,30)
 $m = \frac{1150,16}{9,6234}$ gr
= 119,56 gr

2.2, to keep [H+] stable lie. resist the change of pH) b, salt with will dissociate to ions (therital countering the strong base) c. $F_{(aq)}$ + H_{30} (aq) = $H_{(aq)}$ + H_{20} (e) (the addition of F^* with acids will increase CHFJ and therefore there's a slight decrease on pH) d HF(aq) + 2H (aq) = F (aq) + H2O(e) (the addition of HF with bases will increase [F] and therefore there's a elight increase on p4] 3. STP: Ly T=273°K Ly P=12tm

Standard State:

La T=mostly 298°K

La P= 1 atm

4a. $Ca_3(PO_4)_2 \rightleftharpoons 3Ca^{2+} + 2PO_4^{3-}$ $K_{SP} = (3S)^3 (2S)^2$ $2.0 \times 10^{-33} = 108 \text{ S}^5$

S=1.13×10-3 M

b. $S \times Mm = 1.13 \times 10^{-7}$, $100 \cdot \frac{10^{-3}}{1}$. $310 \cdot \frac{9}{100g}$ solvent

= 3.503 × 10-6 of /100g solvent

5. K=e-AG

= e (-166,27+50,75) - 1000 J/more

= 1.78.1026