Gen Chem II (CHM 202) Fall 18 Dr. Hahn MWF 10 am Quiz II form A 9/7 F Exam #
Name BAz bad attompt
Sign Print (bc can't read signature)
Please show work on all questions for full credit & partial credit. (20 total pts)
1. Is Ca (OH) ₂ [(soluble) or (insoluble)] (circle one) in water? Explain giving the solubilities rules table statements. (4 pts)
OH are insoluble + Ca not exception
2. a. Write out the <u>balanced</u> molecular equation for the reaction below by filling in the blanks.
$Ca Cl_2 + 2 Na OH \rightarrow Ca (OH)_2 + 2 Na U (2 pts each blank, 4 pts)$
b. Write out the total ionic equation for the reaction shown above. (6 pts)
Cat2 + 2Ce +2Nat + 204 -> Ca(OH)2 + 2Nat
alternal -2 (1) +20e-
3. Give the oxidation states of the circled element. Show work or explain where you got the number. (3
pts each, 6 pts total) Un related on 5 wer - 3 care
ca o element in stable state has Zero
(DO3 (OX StateN) + 3 (-2) = -1 (attempt 1/2)
Extra Credit: (2 pts each, 4 pts) (Nox stule) (1 to make 4 pts)
1. If you dissolve 5.62 grams of the compound Na ₂ O 192.7 ml of 56, snow your work for calculation of Molarity of the solution. (FW of Na ₂ O = 62.00 grams/mol) (M = moles/liter)
1) 5.62 g (2) (1/2 pt) 0.978 M (1/2 pt)
92,7 md × 62,00 % Na,0 × 1000 =
2. If you take 12.5 mL of the solution which you made above and dilute it to make up 250.6 mL of
solution, what is the new molarity of the diluted solution? Show work. $(M_iV_i = M_fV_f)$
(0.978M)(12.5ml) = Mc (250.6ml)
$(0.978M)(12.5ml) = M_f(250.6ml)$ -20.0488 M = $M_f = (0.918m)(12.5ml)(250.6ml)$

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Ca	
NO3-	
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