PDF Quiz 2: Chemical Speciation and Thermodynamics RDCH 702	Last Name:
Assigned: 29-Aug-18 Due: 10-Sep-18	First Name:
1. Spontaneous reactions have a positive ΔH .	
2. Spontaneous reactions have what values for Δ G? $_$	
3. Consider the reduction potential data below. For a ion, which element will be reduced?	_
Standard Reduction Potentials (in Volts), 25°C	
Reaction	$\mathbf{E}^{\mathbf{o}}$
$Ag^+ + e^ > Ag$	+0.80
$Fe^{3+} + e^{-}> Fe^{2+}$	+0.77
$I_2 + 2e^> 2I^-$	+0.54
$Cu^+ + e^ > Cu$	+0.52
4. Carbonic acid would be a good buffer for which pH?	·
5. You have a carbonate solid in a solution that you wi the solid. What can be done to increase the rate of	
☐ Freeze solution ☐ Mix solution ☐ Evaporate	te solution in freeze drier Heat solution
☐ Bubble CO₂ into solution ☐ Add dilute acid	
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