

Plant Science Qualifying  
Agri 201—Lab Techniques  
Study Guide Key  
Updated: 10/19/2004

1. 1110g  $\text{CaCl}_2$
2. 2.25moles  $\text{CdCO}_3$
3. There is no 3
4. 9 Moles of Na
5. Add 52.06 g  $\text{BaCl}_2$  to a 1L volumetric flask. Fill it half way with DI water to dissolve  $\text{BaCl}_2$ . Then fill to line and mix.
6. 116.0 g NaCl
7. 0.37 Moles  $\text{CuCl}_2$
8. 126.8 g  $\text{FeCl}_2$  / Mole
9. 11.67 L of 0.6 Molar KCl
10. 136 g  $\text{ZnCl}_2$  / Mole
11. 3.77 mM  $\text{Na}_2\text{CO}_3$
12. 7.2mM Ca
13. 25,000 ppm NaCl
14. standard deviation = 2.41
15. Standard deviation of the mean -1.08
16. CV= 6.0%
17. Relative accuracy = 99%
18. 4.21 meq /l = 4.21 mN
19. df = 300
20. pH = 5
21. 12.5 mL
22. 0.018 meq/L = 0.018 mN
23. 0.04 Abs
24. df = 100
25. 1500 ppm Na
26. df = 12500
27. 0.1 ppm  $\text{PO}_4\text{-P}$
28. 0.1 ppm  $\text{PO}_4\text{-P}$
29. 7.239g  $\text{K}_3\text{PO}_4$