

Agronomy 354
Quiz 6, April 24, 2002

Name _____ (-5 points if not written legibly)

Correct answers to questions 1 through 10 are worth 3 points each.

1. The form(s) of phosphorus taken up by plants is/are
 - a) H_3PO_4 and H_2PO_4^- .
 - b) H_2PO_4^- and HPO_4^{2-} .
 - c) HPO_4^{2-} and PO_4^{3-} .
 - d) P_2O_5 .
 - e) none of the above.

2. The form of potassium taken up by plants is
 - a) K_2O .
 - b) K_2O_5 .
 - c) K^+ .
 - d) K^{2+} .

3. The form of sulfur taken up by plants is
 - a) SO_4^{2-} .
 - b) H_2S .
 - c) elemental sulfur.
 - d) S_2O .

4. The property that controls P availability in soils is
 - a) organic matter content.
 - b) aeration.
 - c) type of clay.
 - d) pH.

5. Extractable K is a measure of
 - a) slowly available K.
 - b) K in the soil solution.
 - c) K on the cation exchange capacity.
 - d) K in solution and K on the cation exchange capacity.

6. The analysis of monoammonium phosphate is 11-48-0. What is the elemental P percentage?
 - a) 48%.
 - b) 21%.
 - c) 11%.
 - d) 0.

