Finance 5360 Quiz B: 7/28/15

Name _

Key

- Assume that Amorgy Inc. has a 25% of earning an EBIT of \$100 million per year, a 30% chance of earning an EBIT of \$175 million per year, a 35% chance of earning an EBIT of \$225 million per year, and a 10% chance of earning an EBIT of \$300 million per year. Assume also that Amorgy's current interest expense equals \$150 million. Amorgy is considering issuing additional \$100 million of permanent debt at a 10% interest ratean 1 USes the proceeds to replichage common that. a. How does the value of Amorgy change if markets are perfect? Note: Answer is a number.
- b. How does the value of Amorgy change if the only market imperfection is corporate taxes and the corporate tax rate equals 35%? Note: Answer is a number.
- c. How does the value of Amorgy change if the only market imperfections are corporate and personal taxes? Assume the corporate tax rate equals 35%, the personal tax rate on equity income equals 20%, and the personal tax rate on interest income equals 30%. Note: Answer is a number.
- d. How would your answer to "c" change if we also assume the presence of stockholder-bondholder conflict? Note: Answer is NOT a number. All you need to do is indicate the direction of
- e. How would your answer to "d" change if we also assume bankruptcy costs exist? Note: Answer is NOT a number. chanhe.

Therest expense on new debt=10 million; Total interest = 160 million

- b. 100(.35)=35 Million+15 $\int \frac{1}{(1-\frac{1}{3})} \int \frac{1}{(1-\frac{1}{3})} \int \frac{1}{(1-\frac{1}{3})} \int \frac{1}{(1-\frac{1}{3})} = +.1571 \text{ million}$
 - d. lower +5
 - e. Lowe C+5