

## Session 12a: Post Class tests

1. Publicly traded companies often accumulate cash that is usually invested in riskless, liquid securities that yield low returns. Which of the following is a good reason for punishing companies that hold cash (by discounting the cash)?
  - a. The cash earns a lower rate of return than the cost of equity
  - b. The cash earns a lower rate of return than investments in operating assets
  - c. Investors can earn a higher return on the cash, if it was returned to them.
  - d. The company has a good track record on operating investments and you are afraid that the company will not invest the cash
  - e. The company has a bad track record on operating investments and you are afraid that the company will invest the cash
2. Genesis is a closed end mutual fund, with \$250 million invested in publicly traded securities (net asset value). The fund is an average risk fund (beta = 1) and has earned an annual return of 9% over the last 5 years; the market return over the period was 12%. If you expect the market return in the future to be 8% and Genesis to continue under performing the market by the same amount as it has for the last 5 years, estimate the discount that the fund will trade at (assuming no growth in the fund, in perpetuity).
  - a. 25%
  - b. 37.5%
  - c. 11.1%
  - d. 58.33%
  - e. None of the above
3. Pagano Holdings is a publicly traded company with a 10% minority holding in Gigante Enterprises. You have discounted Pagano's free cash to the firm back at Pagano's cost of capital and arrived at a value of \$250 million for Pagano's equity. Assume that Gigante Holdings has an aggregate book value of equity of \$100 million and that you estimate the "intrinsic" value of its equity to be \$200 million. Estimate the value of equity for Pagano Holdings.
  - a. \$250 million
  - b. \$260 million
  - c. \$240 million
  - d. \$270 million
  - e. \$230 million
4. Nowitzki Inc. is a publicly traded company that owns 60% of Bowden Inc, another publicly traded firm. You have valued the operating assets of Nowitzki by discounting the cash flows (from Pagano's consolidated financials) at the cost of capital to arrive at a value of \$1 billion for the operating assets. Nowitzki reports debt of \$200 million and cash of \$100 million on its consolidated balance sheet. While Nowitzki also shows a minority interest of \$120 million on the balance sheet, you believe that the intrinsic value of all of Bowden's equity is closer to \$500 million. Estimate the value of equity for Nowitzki.
  - a. \$700 million
  - b. \$1.1 billion

- c. \$880 million
  - d. \$1,120 million
  - e. \$ 600 million
5. You have finished a discounted cash flow valuation of a company, discounting free cash flows to the firm at the cost of capital to arrive at a value of \$ 2 billion. You have also valued individual assets on the company's balance sheet. Which of the following assets would you add to your estimated value to arrive at the value of the overall business?
- a. Goodwill of \$500 million
  - b. Brand name value of \$ 300 million
  - c. Value of property, plant & equipment (manufacturing facilities) of \$ 600 million
  - d. Value of real estate (headquarters building) of \$200 million
  - e. None of the above