

A true Friend is the best Possession.

Ben Franklin

For the multiple choice questions, give the correct choice and very briefly explain your answer.

1. When evaluating a project, the chance of default is captured by:
 - (a) using the CAPM expected rate of return as the discount rate.
 - (b) using the expected return on the market as the discount rate.
 - (c) calculating the expected cash flows of the project.
 - (d) discounting the expected cash flows of the project at the equity premium
2. If your tax rate is 40%, what interest rate do you earn in after-tax terms if the before-tax interest rate is 6%?
3. On Oct 20, 2024, tax-exempt A-rated 10-year muni bonds yielded 3.15%, and corporate 10-year A-rated bonds yielded 4.77%. What is the marginal tax rate of the marginal taxable investor? If your marginal tax rate is 37%, which is the better buy?
4. You purchased a house for \$450,000 and incurred additional costs of \$4,000 at the time of the purchase. Because of a job transfer, you were forced to sell the house later for \$400,000. The selling broker charged a 6% commission, and you estimated that other costs associated with the sale, both direct and indirect, amounted to \$10,000. What was your rate of return on this investment?
 - (a) 24.0%
 - (b) 17.9%
 - (c) -19.4%
 - (d) -21.3%
5. If the stock market is at least semi-strong efficient then,
 - (a) you should be able to determine when to buy or to sell a stock by studying the pattern of its historical prices.
 - (b) trading on information that you read in The Wall Street Journal or on the internet is unlikely to allow you to purchase stocks that are significantly underpriced.
 - (c) you cannot expect to find underpriced or overpriced stocks even if you have inside information.

- (d) you are likely to find underpriced and overpriced securities by conducting a thorough analysis of a firm's financial statements.
6. If markets are efficient (and maybe even perfect), it doesn't matter what portfolio you hold because the prices are fair. Comment very briefly (2 or 3 sentences are sufficient).
7. The most important financial statement from the viewpoint of a financial analyst is the:
- (a) balance sheet
 - (b) income statement
 - (c) cash flow statement
 - (d) owners' equity statement
8. Pet Sounds had sales of \$12 million in 2024. Its cost of goods sold was \$9 million, and it had selling, general, and administrative expenses of \$1.1 million. The firm paid \$100,000 in interest to its bond holders and \$50,000 in dividends to its shareholders. For simplicity, assume a flat tax rate of 21%. Pet Sound's net income for 2024 was:
- (a) \$3.00 million
 - (b) \$1.90 million
 - (c) \$1.80 million
 - (d) \$1.75 million
 - (e) \$1.42 million
9. FLS Inc. is preparing its 2024 statement of cash flows. For each item below, indicate whether it will be (1) a decrease or increase to (2) operating, investing, or financing CFs.
- (a) Buy warehouse and land
 - (b) Receiving payment of an account receivable
 - (c) Issuing more shares of stock
 - (d) Depreciation expense of the new warehouse
 - (e) Payment of dividends by FLS
 - (f) Payment of interest by FLS on a bond
 - (g) Sale of goods on credit to a customer (increase in AR)

- (h) Sale of bonds (borrowing)
 - (i) Redemption of some of its shares outstanding
 - (j) Payment of an account payable for services received from a law firm
 - (k) Increase in a payable for services rendered by another law firm
10. Open Costco's (COST) 2024 financial statements on the class web page. For the questions below, please indicate, where relevant: (1) the formula you used, (2) the numbers used in the computation, and (3) the source of the numbers from the financials, *e.g.*, income statement, CF statement. Note, for some of the questions, this won't be relevant, *e.g.*, COST's P/E ratio. The notes to the financials may be useful.
- (a) What is COST's current ratio?
 - (b) What is COST's interest coverage ratio?
 - (c) What is the book value of a share of COST? What is the current market value?
 - (d) What items may be missing from COST's BS that may account for the difference between the book and market values?
 - (e) What is COST's P/E ratio?
 - (f) How much dividends did COST pay in FY 2024?
 - (g) What was the total value of shares COST repurchased in FY 2024? What was the average price per share? Good use of shareholder money?
 - (h) What's COST's gross profit margin (GPM)?
 - (i) What's COST's EBITDA and EBITDA margin?
 - (j) What's COST's operating profit margin?
 - (k) What's COST's net profit margin?
 - (l) What is COST's cash flow from operations (CFO)?
 - (m) What's COST's unlevered free cash flow (FCF)?
 - (n) What are COST's days receivable outstanding (DRO) and days payable outstanding (DPO)? Any comments?
 - (o) What is COST's return on equity (ROE)?
 - (p) What is COST's return on invested capital (ROIC)?
11. A firm has earnings of \$200 and a P/E ratio of 20. What is a possible estimate of its implied growth rate if its cost of capital is about 10%?