

銘傳大學 103 學年度研究所碩士班招生考試
 企業管理學系碩士班、財務金融學系碩士班、
 國際企業學系碩士班、風險管理與保險學系碩士班
 第二節
 「財務管理」試題

(第 / 頁共 3 頁) (限用答案本作答)

可使用計算機 不可使用計算機

Section I Multiple Choice 單選題 60%

- Assume you are given the following for Information Technology industries:
 Return on Assets (ROA) = 8%; Debt Ratio = 60%; The Return on Equity (ROE) for Information Technology industries is:
 A. 20%
 B. 25%
 C. 80%
 D. 100%
 E. Insufficient information
- You have financed the purchase of a used Mercedes with a USD \$31,500 loan with a 5-year term, monthly payments, and an 8% stated annual rate. What is the amount of your monthly loan payment?
 A. USD 350.00
 B. USD 477.92
 C. USD 583.33
 D. USD 638.71
 E. USD 657.45

- Consider a NTD 1,000,000 portfolio with an equal investment in two funds. Fund A and fund B with the following annual return distributions:

| Fund | Expected Return | Volatility |
|------|-----------------|------------|
| A | 0.05 | 0.2 |
| B | 0.07 | 0.25 |

Assuming the returns follow the normal distribution and that there are 252 trading days per year, what is the maximum possible daily 95% Valu-at-Risk (VaR) estimate for the portfolio?

- NTD 22,587
 B. NTD 23,316
 C. NTD 24,459
 D. NTD 25,908
 E. NTD 26,150
- First bank has many open derivative positions with Nation investments. A description and current market values are displayed in the table below:

| Positions | Market Price (NTD) |
|----------------------------|--------------------|
| Long swaptions | 8 million |
| Long credit default swaps | -22 million |
| Short currency derivatives | 30 million |

In the event that Nation defaults, what would be the loss to First Bank if netting is used?

- NTD 0 million
 B. NTD 16 million
 C. NTD 44 million
 D. NTD 60 million
 E. NTD 62 million
- It is expected that the market has an average return of 10% and the risk-free asset has a return of 5%. The standard deviation of returns on the market has been 7% in the past. What is the expected return of a portfolio with a standard deviation of 10%?
 A. 5.72
 B. 8.60
 C. 10.72
 D. 12.14
 E. 14.22
- A security that pays a constant dividend every year forever is known as:
 A. A zero-coupon bond
 B. Preferred stock
 C. Class A Common stock
 D. A Reverse Perpetual Mortgage obligation security
 E. A callable bond
- A firm is considering the purchase of an asset whose risk is greater than the current risk of the firm, based on any method for assessing risk. In evaluating this asset, the decision maker should
 A. Increase the IRR of the asset to reflect the greater risk.
 B. Increase the NPV of the asset to reflect the greater risk.
 C. Reject the asset, since its acceptance would increase the risk of the firm.
 D. Ignore the risk differential if the asset to be accepted would comprise only a small fraction of the total assets of the firm.
 E. Increase the cost of capital used to evaluate the project to reflect the higher risk of the project.

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8. In theory, the decision maker should view market risk as being of primary importance. However, within-firm, or corporate, risk is relevant to a firm's
- A. Well-diversified stockholders, because it may affect debt capacity and operating income.
 - B. Management, because it affects job stability.
 - C. Creditors, because it affects the firm's credit worthiness.
 - D. All of the answers above are correct.
 - E. Only answers a and c are correct.
9. Which of the following events is likely to encourage a company to raise its target debt ratio?
- A. An increase in the corporate tax rate.
 - B. An increase in the personal tax rate.
 - C. An increase in the company's operating leverage.
 - D. Statements a and c are correct.
 - E. All of the statements above are correct.
10. What should be the price of a \$1,000 par value, 10% annual coupon rate (coupon interest paid semi-annually) bond with 30 years remaining to maturity, assuming a discount rate of 9%?
- A. \$1,101.88
 - B. \$1,102.44
 - C. \$1,103.19
 - D. \$1,104.48
 - E. \$1,105.72
11. Compared to buying stocks and bonds directly, what are the advantages of investing in a mutual funds?
- A. Efficient diversification and professional management.
 - B. Investment returns are not taxed until withdrawn from the fund.
 - C. You can buy additional shares in the fund or cash out at any time.
 - D. All of the above are correct.
 - E. All of the above are not correct.
12. Ten years ago, Levin Inc. earned \$0.50 per share. Its earnings this year were \$2.20. What was the growth rate in Levin's earnings per share (EPS) over the 10-year period?
- A. 15.17%
 - B. 15.97%
 - C. 16.77%
 - D. 17.61%
 - E. 18.49%
13. Portfolio XYZ has an expected return of 8%, volatility of 20%, and beta of 0.5. Assume that the market has an expected return of 10% and volatility of 25%. Also assume a risk-free rate of 5%. What is Jensen's alpha for portfolio XYZ?
- A. 0.5%
 - B. 1.0%
 - C. 1.5%
 - D. 2.0%
 - E. 2.5%
14. Which of the following accounts would pay you the highest effective annual rate?
- A. Stated annual rate of 6.05%, compounded annually
 - B. Stated annual rate of 6.01%, compounded semi-annually
 - C. Stated annual rate of 5.95%, compounded quarterly
 - D. Stated annual rate of 5.90%, compounded monthly
 - E. Stated annual rate of 5.85%, compounded daily (assuming 365 days a year)
15. A company is considering an expansion project. The company's CFO plans to calculate the project's NPV by discounting the relevant cash flows (which include the initial up-front costs, the operating cash flows, and the terminal cash flows) at the company's cost of capital (WACC). Which of the following factors should the CFO include when estimating the relevant cash flows?
- A. Any sunk costs associated with the project.
 - B. Any interest expenses associated with the project.
 - C. Any opportunity costs associated with the project.
 - D. Answers b and c are correct.
 - E. All of the answers above are correct.

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Section II Problem Solving 計算題 40%

1. SuperTime Co. is an all-equity financed company on the Taiwan Stock Exchange. For the last five years, its stock returns and the returns on FTSE TWSE Taiwan 50 Index are as follows: (10%)

| Year | Returns on SuperTime Co.(%) | Returns on FTSE TWSE Taiwan 50 (%) |
|------|-----------------------------|------------------------------------|
| 1 | 10 | 8 |
| 2 | 6 | 1 |
| 3 | -4 | 10 |
| 4 | 24 | 12 |
| 5 | 19 | 14 |

In the current market, the risk-free rate is 2% per annum. Using the above information, please estimate (1) the beta, and (2) expected return on SuperTime Co.

2. A company has total assets of NTD 214,600,000, long-term debt of NTD 52,700,000, total equity of NTD 115,200,000, fixed assets of NTD 164,400,000, and sales of NTD 241,900,000. The profit margin is 6 percent. What is the current ratio? (10%)
3. You were hired as a consultant to Kroncke Company, whose target capital structure is 40% debt, 10% preferred, and 50% common equity. The after-tax cost of debt is 6.00%, the cost of preferred is 7.50%, and the cost of retained earnings is 13.25%. The firm will not be issuing any new stock. What is its WACC? (10%)
4. What is Security Market Line? and what's the difference between Security Market Line and Capital Market Line. (10%)

試題完
End of exam