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Part 1: Single-choice questions, 2% per each

- Two countries, the U.S. and England, produce only one good, wheat. Suppose the price of wheat is \$3.25 in the U.S. and is £1.35 in England. According to the law of one price, what should the \$: € spot exchange rate be?
 - (A) \$2.4074
- (B) \$2.1925
- (C) \$2.4731
- (D) \$2.7214
- On August 1, 2006, Zimbabwe changed the value of the Zim dollar from Z\$101/U.S.\$ to 7\$250/U.S. \$ to 7\$250/U.S.\$ Z\$101/U.S.\$ to Z\$250/U.S.\$. By what percent has the U.S. dollar appreciated relative to the Zim dollar?
 - (A) 59.6%
- (B) 147.52%
- (C) 56.9%
- (D) 145.72%
- www.chenwei.co Which one of the following economic policies would the international financial markets tend to reward?
 - (A) Increased tariffs
 - (B) Reduced government ownership of private firms
 - (C) A system of government currency controls
 - (D) More government protection of infant-industries
- A firm with a corporate-wide debt/equity ratio of 1:2, an after-tax cost of debt of 7%, and a cost of equity capital of 15% is interested in pursuing a foreign project. The debt capacity of the project is the same as for the company as a whole, but its systematic risk is such that the required return on equity is www.chenwei.com estimated to be about 12%. The after-tax cost of debt is expected to remain at 7%. What is the project's weighted average cost of capital?
 - (A) 9.25%
- (B) 12.33% (C) 12.66%
- (D) 10.33%
- What is the value of a 9-month call with a strike price of \$45 given the Black-Scholes Option Pricing Model and the following information? Stock prick \$48; Http://www.chenwei.com Exercise price \$45; Time to expiration 0.75; Risk-free rate 5%; $N(d_1) =$ 0.718891; N(d₂) = 0.641713; $2.71828^{-0.05 \times 0.75}$ = 0.9632. Http://www.cher

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- (A) \$2.03
- (B) \$4.86
- (C) \$6.69
- (D) \$8.81
- By rewarding executives with large option positions, corporations:
 - (A) cause the executives to hold highly undiversified portfolios.
 - (B) put the firm in a risky position to pay off the options.
 - (C) cause the value of the stock to fall because the options are theft.
 - (D) are really valueless because most options are never exercised.
- The call option on a dividend paying stock compared to a non-dividend paying stock is:
 - (A) more valuable because of the extra dividend payment.
 - (B) equal in value because cash dividends are paid on stock only.
 - (C) less valuable because cash dividends are paid on stock only.
 - (D) less valuable if the dividend paying stock is in-the-money while the nondividend paying stock if out-of-the-money.
- Derivatives can be used to either hedge or speculate. These actions:
 - (A) increase risk in both cases.
 - (B) decrease risk in both cases.
 - (C) spread or minimize risk in both cases.
 - (D) offset risk by hedging and increase risk by speculating.
 - (E) offset risks by speculating and increase risk by hedging.
- To protect against interest rate risk, the mortgage banker should:
 - (A) buy futures, as this position will hedge losses if rates rise.
 - (B) sell futures, as this position will hedge losses if rates rise.
 - (C) sell futures, as this position will add to his gains if rates rise.
 - (D) buy futures, as this position will add to his gains if rates rise.
- Http://www.chenwel.com **10.** Which of the following money-market securities has no active secondary market? com.tvN
- (A) Certificates of deposit (CD's)
 - (B) Commercial paper
 - (C) Banker's acceptances
 - (D) Treasury bills

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- **11.** The target cash balance is reached when:
 - (A) the interest on any marketable security throw-off is maximized.
 - (B) the interest foregone from not investing in an equivalent amount of Treasury bills is minimized.
 - (C) the value of cash liquidity equals interest foregone on an equivalent amount of Treasury bills.
- (D) the liquidity value is greater than interest foregone on an equivalent amount of Treasury bills.

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- **12.** When a firm sells its accounts receivables to a financial institution, it is called:
 - (A) captive financing.
 - (B) collateralization.
- (C) securitization.
 - (D) legalization.
 - **13.** If Microsoft were to acquire U.S. Airways, the acquisition would be classified as acquisition. Http://www.chenwei.co

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- (A) horizontal
- (B) longitudinal
- (C) conglomerate
- (D) vertical
- (E) complementary resources.
- **14.** A proposed acquisition may create synergy by: I. increasing the market power of the combined firm. II. improving the distribution network of the acquiring firm. III. providing the combined firm with a strategic advantage. IV. reducing the utilization of the acquiring firm's assets.
 - (A) I and III only
 - (B) II and III only
 - (C) I and IV only
 - (D) I, II, and III only
 - (E) I, II, III, and IV.
- **15.** The management of Magic Mobile Homes has proposed to reorganize the firm. financial structure is \$750,000 in new mortgage debt, \$250,000 in subordinated Http://www.

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debt and \$1,000,000 in new equity. All creditors, both secured and unsecured, are owed \$2.5 million dollars. Secured creditors have a mortgage lien for \$1,500,000 on the factory. The corporate tax rate is 34%. How much should the unsecured creditors receive?

(A) \$500,000

(B) \$667,000

(C) \$750,000

- (D) \$1,000,000
- (E) None of the above.
 - **16.** The current spot rate is C\$1.400 and the one-year forward rate is C\$1.344. The nominal risk-free rate in Canada is 4 percent while it is 8 percent in the U.S. Using covered interest arbitrage, you can earn an extra which you would earn if you invested \$1 in the U.S.
 - (A) \$.0001
- (B) \$.0033
- (C) \$.0040
- (D) \$.0833

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- (E) \$.0840
- **17.** From a tax-paying investor's point of view, a stock repurchase:
 - (A) is equivalent to a cash dividend.
 - (B) is more desirable than a cash dividend.
 - (C) has the same tax effects as a cash dividend.
 - (D) is more highly taxed than a cash dividend.
 - (E) creates a tax liability even if the investor does not sell any of the shares he owns.
- **18.** The Tinslow Co. has 125,000 shares of stock outstanding at a market price of \$93 a share. The company has just announced a 7-for-3 stock split. What will the market price per share be after the split?
 - (A) \$38.27
- (B) \$39.86
- (C) \$40.40
- (D) \$46.18

- (E) \$55.80
- **19.** Brad's Boat Company, a company in the 40% tax bracket, has riskless debt in its capital structure which makes up 30% of the total capital structure, and equity is the other 70%. The beta of the assets for this business is .9 and the equity beta is:
 - (A) 0.54
- (B) 0.90
- (C) 1.13
- (D) 1.20

(E) 1.49



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- **20.** The Webster Corp. is planning construction of a new shipping depot for its single manufacturing plant. The initial cost of the investment is \$1 million. Efficiencies from the new depot are expected to reduce costs by \$100,000 forever. The corporation has a total value of \$60 million and has outstanding debt of \$40 million. What is the NPV of the project if the firm has an after tax cost of debt of w.chenwei.co 6% and a cost equity of 9%?
- (A) \$428,571
- (B) \$444,459 (C) \$565,547
- (D) \$1,000,000
- **21.** If the WACC is used in valuing a leveraged buyout, the:
 - (A) WACC remains constant because of the final target debt ratio desired.
 - (B) flotation costs must be added to the total UCF.
 - www.chenwei (C) WACC must be recalculated as the debt is repaid and the cost of capital changes.
 - (D) tax shields of debt are not available because the corporation is no longer publicly traded.
- **22.** Given the following information, leverage will add how much value to the unlevered firm per dollar of debt? Corporate tax rate: 34%; Personal tax rate on income from bonds: 20%; Personal tax rate on income from stocks: 50%.
 - (A) \$ 0.050
- (B) \$-0.188
- (C) \$0.367
- (D) \$0.588

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- **23.** The capital structure chosen by a firm doesn't really matter because of:
 - (A) taxes.
 - (B) the interest tax shield.
 - (C) the relationship between dividends and earnings per share.
 - (D) the effects of leverage on the cost of equity.
 - (E) homemade leverage.
- **24.** The cost of capital for a firm, R_{WACC} , in a zero tax environment is:
 - www.chenwei.cor (A) equal to the expected earnings divided by market value of the unlevered firm.
 - (B) equal to the rate of return for that business risk class.
 - (C) equal to the overall rate of return required on the levered firm.
 - (D) is constant regardless of the amount of leverage.
 - (E) All of the above.

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25. Assuming the CAPM or one-factor model holds, what is the cost of equity for a firm if the firm's equity has a beta of 1.2, the risk-free rate of return is 2%, the expected return on the market is 9%, and the return to the company's debt is 7%?

(A) 10.4%

- (B) 10.8%
- (C) 12.8%
- (C)14.4%

- How does the market react to unexpected dividend changes? All things considered, would you expected a minimum. growth prospects to have a low or a high dividend? (10%)
- 2. What are the possible reasons why the price of stock drops on the announcement of a new equity issue and why the price of stock increases on the announcement of share repurchase? (10%)
- The capital budgeting question is probably the most important issue in corporate 3. finance. Please describe how to make a capital investment decision? (Hint: You must describe investment criteria, how to identify and organize the relevant cash flows and how to decrease the forecasting risk.) (10%)
- During the last decade, U.S. corporates are holding record-high amounts of cash. The related phenomenon has also emerged in Taiwan, especially in high technology corporates. Why are corporates holding so much cash? Please explain. (10%)
- Please respond to the following statement: "Market efficiency means that it doesn't matter how you invest your money because the efficiency of the market will protect you from making a mistake." (10%)



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超越貨

【財管所】 Part 1: Single-choice questions Http://www.chenwei.

1. (A)

$$3.25 \div 1.35 = 2.4074$$

$$0.07 \times \frac{1}{3} + 0.12 \times \frac{2}{3} = 0.1033$$

$$\frac{D}{E} = \frac{1}{2}, \quad k_{d} = 0.07, \quad k_{e} = 0.15$$
5. (C)

$$C = S_{0} \times N(d_{1}) - ke^{-rf \times T}N(d_{2})$$

$$= 48 \times 0.718891 - 45 \times e^{-0.05 \times 0.75}$$

$$C = S_0 \times N(d_1) - ke^{-rf \times T}N(d_2)$$

$$= 48 \times 0.718891 - 45 \times e^{-0.05 \times 0.75} \times 0.641713$$

$$= 6.60$$

- (D)
- 10. (B)
- 11. (C) Wel.Co

現金流動對價值 = 購買 T/B 所購的利息

- 12. (C)
- 13. (C)













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- Http://w16. (C)

$$1us \rightarrow 1.4c$$

$$F = S \times \frac{1 + r_c}{1 + r_{us}}$$

$$=1.4 \times \frac{1.04}{1.08}$$

$$= 1.3481 > 0.004$$

- 18. (B)

$$93 \times 3 \div 7 = 39.86$$

19. (C)
$$\beta_{L} = 0.9 + 0.9 \times (1 - 40\%) \times \frac{30}{70} = 1.13$$
20. (A)

(A)
$$\frac{4}{6} + 0.09 \times \frac{2}{6} = 0.07 \text{ Mps.}$$
 (he) $\frac{100,000}{6} - 428.571$

$$-100,000 + \frac{100,000}{0.07} = 428,571$$

- 21. (C)
- 22. (D)

$$1 - \frac{0.66 \times 0.5}{0.8} = 0.5875$$

$$V_{L} = V_{U} + D \times \left[1 - \frac{(1 - T_{c})(1 - T_{ps})}{(1 - T_{pb})}\right]$$
23. (E)

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Http://www.chenwei.com.tw Http://www.c \boldsymbol{k}_{SU} $k_{_{SL}}=k_{_{e}}$ WACC Http://www.chenwei.com. 25. (A) $0.02 + 0.07 \times 1.2 = 10.4\%$ Http://www.chenwei.com. Part 2: Questions 見講義書內容 見講義書內容 3. 見講義書內容 Http://www.chenwei.com.tw 見講義書內容 擲骰子的效率 (見講義書) Http://www. Http://www.chenwei.com.tw Http://www.chenwei.com.tw Http://www.chenwei.com.tw 105-68