編號: 286 國立成功大學一○○學年度碩士班招生考試試題 系所組別:財務金融研究所 考試科目:財務管理 ※ 考生請注意:本試題 □ □ □ 不可 使用計算機	共 7 頁,第 頁 考試日期:0220,節次:2	
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請勿在本試題紙上作答,否則不予計分		
Section A: Multiple Choice Questions (80 marks, 4 points each)		
1. Which two of the following are the primary reasons why firms have cash sur	pluses?	
I. cyclical activities		
II. desire to invest funds		
III. excessive short-term financing		
IV. financing of planned expenditures		
A. I and III only		
B. II and IV only		
D. III and IV only		
E. Land IV only		
2. Which of the following statements is most correct?		
<ul> <li>A. If a company wants to issue new shares of common stock and also dividend reinvestment plan, then it should implement a new-stock divider rather than an open-market purchase plan.</li> <li>B. If a company undertakes a 3-for-1 stock split, then the number of shar fall, and the stock price should rise.</li> <li>C. If a company wants to reduce its debt ratio, then it should repurchase stock.</li> <li>D. Answers a and c are correct.</li> <li>E. Answers b and c are correct.</li> </ul>	wants to implement a end reinvestment plan, res outstanding should some of its common	
<ul> <li>3. Currently, 1 British pound equals 1.62 U.S. dollars and 1 U.S. dollar equals What is the cross exchange rate between the pound and the franc?</li> <li>A. 1 British pound equals 3.2400 Swiss francs</li> <li>B. 1 British pound equals 2.6244 Swiss francs</li> <li>C. 1 British pound equals 1.8588 Swiss francs</li> <li>D. 1 British pound equals 1.0000 Swiss francs</li> <li>E. 1 British pound equals 0.3810 Swiss francs</li> </ul>	als 1.62 Swiss francs.	

(背面仍有題目,請繼續作答)

编號: 286	國立成功大學一○○學年度碩士班招生考試試題	共 頁,第 人頁
系所組別: 財務金融研究所	Ť	
考試科目: 財務管理	/	考試日期:0220、節次:2
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4. Today, you turn 2 an attempt to read	23. Your birthday wish is that you will be a millionaire b ch this goal, you decide to save \$50 a day, every day until	y your 40 <sup>th</sup> birthday. In you turn 40. You open

- an investment account and deposit your first \$50 today. What rate of return must you earn to achieve your goal? 9.67 percent Α.
  - B. 10.75 percent
  - C. 11.80 percent
  - D. 13.06 percent
  - E. 13.54 percent
- 5. Given the following returns on Stock Q and "the market" during the last three years, what is the difference in the calculated beta coefficient of Stock Q when Year 1 and Year 2 data are used as compared to Year 2 and Year 3 data?

Year	Stock Q	Market
1	6.30%	6.10%
2	-3.70	12.90
3	21.71	16.20

- A. 9.17 B. 1.06 C. 6.23
- D. 0.81 E. 0.56
- 6. Company A can issue floating rate debt at LIBOR + 1 percent and can issue fixed rate debt at 9 percent. Company B can issue floating rate debt at LIBOR + 1.4 percent and can issue fixed rate debt at 9.4 percent. Suppose A issues floating rate debt and B issues fixed rate debt. They engage in the following swap: A will make a fixed 7.95 percent payment to B, and B will make a floating rate payment equal to LIBOR to A. What are the resulting net payments of A and B?
  - A. A pays a fixed rate of 9 percent, B pays LIBOR + 1.5 percent.
  - B. A pays a fixed rate of 8.95 percent, B pays LIBOR + 1.45 percent.
  - C. A pays LIBOR plus 1 percent, B pays a fixed rate of 9.4 percent. D. A pays a fixed rate of 7.95 percent, B pays LIBOR.

  - E. None of the answers above is correct.

3	
编號:	286 國立成功大學一〇〇學年度碩士班招生考試試題 共 7頁,第3頁
系所組別	: 財務金融研究所
考試科目	· 財務管理 考試日期:0220·節次:2
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7.	Which of the following statements concerning capital structure theory is <i>false</i> ?
	<ul> <li>A. The major contribution of Miller's theory is that it demonstrates that personal taxes decrease the value of corporate debt.</li> <li>B. Under MM with zero taxes, financial leverage has no effect on firm value.</li> <li>C. Under MM with corporate taxes, the value of the levered firm exceeds the value of the unlevered firm by the product of the tax rate times the market value dollar amount of debt.</li> <li>D. Under MM with corporate taxes, r<sub>s</sub> increases with leverage, and this increase is just sufficient to offset the tax benefits of debt financing.</li> <li>E. Under MM with corporate taxes, the effect of business risk is automatically incorporated because r<sub>sL</sub> is a function of r<sub>sU</sub>.</li> </ul>
8.	Shearson PLC's stock sells for \$42 per share. The company wants to sell some 20-year, annual interest, \$1,000 par value bonds. Each bond will have attached 75 warrants, each exercisable into one share of stock at an exercise price of \$47. Shearson's straight bonds yield 10 percent. The warrants will have a market value of \$2 each when the stock sells for \$42. What coupon interest rate must the company set on the bonds-with-warrants if the bonds are to sell at par? A. 6.00% B. 7.13%
9.	<ul> <li>Bonner Metals wants to issue new 18-year bonds for some much-needed expansion projects. The company currently has 11 percent bonds on the market that sell for \$1,459.51, make semiannual payments, and mature in 18 years. What should the coupon rate be on the new bonds if the firm wants to sell them at par?</li> <li>A. 5.75 percent</li> <li>B. 6.23 percent</li> <li>C. 6.41 percent</li> <li>D. 6.60 percent</li> <li>E. 6.79 percent</li> </ul>

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286 國立成功大學一〇〇學年度碩士班招生考試試題 共 頁,第4頁
: 財務金融研究所
: 財務管理 考試日期:0220,節次:2
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You want to have \$1.04 million in real dollars in an account when you retire in 46 years. The nominal return on your investment is 8 percent and the inflation rate is 3.5 percent. What is the real amount you must deposit each year to achieve your goal? A. \$6,667.67 B. \$6,878.49 C. \$7,433.02 D. \$7,615.09 E. \$7,744.12
<ul> <li>Shareholders in a leveraged firm might wish to accept a negative net present value project if:</li> <li>A. it increases the standard deviation of the returns on the firm's assets.</li> <li>B. it lowers the variance of the returns on the firm's assets.</li> <li>C. it lowers the risk level of the firm.</li> <li>D. it diversifies the cash flows of the firm.</li> <li>E. it decreases the risk that a firm will default on its debt.</li> </ul>
<ul> <li>Bruno's Lunch Counter is expanding and expects operating cash flows of \$26,000 a year for 4 years as a result. This expansion requires \$39,000 in new fixed assets. These assets will be worthless at the end of the project. In addition, the project requires \$3,000 of net working capital throughout the life of the project. What is the net present value of this expansion project at a required rate of return of 16 percent?</li> <li>A. \$18,477.29</li> <li>B. \$21,033.33</li> <li>C. \$28,288.70</li> <li>D. \$29,416.08</li> </ul>

编號:	286 國立成功大學一〇〇學年度碩士班招生考試試測	共 7 頁 第 5頁
系所組別	: 財務金融研究所	
考試科目	: 財務管理	考試日期:0220 節次:2
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13.	For every positive net present value project that a firm undertakes, t	he equity in the firm will
	increase the most if the delta of the call option on the firm's assets is:	
	A. equal to one.	
	B. between zero and one.	
	C. equal to zero.	
	D. between zero and minus one.	
	E. equal to minus one.	
14.	Mesmer Analytic, a biotechnology firm, floated an initial public offering price of \$5.00 per share. The firm's owner/managers held 60 percent of value authorized and issued stock following the public offering. One firm's board of directors declared a one-time dividend of \$0.50 stockholders, meaning that the owner/managers would receive an immo of the pockets of the new public stockholders. What was the book v before and after the special dividend was paid?	ng of 2,000,000 shares at a of the company's \$1.00 par e month after the IPO, the per share payable to all ediate dividend, in part out alue per share of the firm
	A. \$2.60; \$2.10 B. \$2.60; \$2.60 C. \$2.60; \$2.30 D. \$1.60; \$1.10 E. \$1.60; \$1.00	
15.	Western Wear is considering a project that requires an initial investme maintains a debt-equity ratio of 0.40 and has a flotation cost of debt of cost of equity of 10.5 percent. The firm has sufficient internally gen equity portion of this project. What is the initial cost of the project inclu A. \$279,592 B. \$281,406 C. \$288,005 D. \$297,747	ent of \$274,000. The firm of 7 percent and a flotation terated equity to cover the ading the flotation costs?

- E. \$302,762
- Which of the following are examples of diversifiable risks? I. the inflation rate spikes suddenly II. terrorists strike the United States 16.

  - III. the price of corn increases due to a nationwide drought
  - IV. taxes are increased on hotel room rentals A. I and III only

  - B. II and IV only
  - C. I and II only
  - D. III and IV only
  - E. I, II, and IV only

(背面仍有題目,請繼續作答)

-	編號:	286	國立成功大學一○○學年度碩士班招生考試試題	共7頁,第6頁
	系所組別	: 財務金融研究所		
	考試科目	: 財務管理	/	考試日期:0220,師次:2
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- 17. Stock in Country Road Industries has a beta of 0.97. The market risk premium is 10 percent while T-bills are currently yielding 5.5 percent. Country Road's most recent dividend was \$1.70 per share, and dividends are expected to grow at a 7 percent annual rate indefinitely. The stock sells for \$32 a share. What is the estimated cost of equity using the average of the CAPM approach and the dividend discount approach?
  - A. 13.94 percent
  - B. 14.06 percent
  - C. 14.21 percent
  - D. 14.38 percent
  - E. 14.50 percent
- The sale of stock in a wholly owned subsidiary via an initial public offering is referred to as a(n):
   A. split-up.
  - B. equity carve-out.
  - C. countertender offer.
  - D. white knight transaction.
  - E. lockup transaction.
- 19. Firm M is a mature firm in a mature industry. Its annual net income and net cash flow are both consistently high and very stable. The company's growth prospects are quite limited; therefore, the company's capital budget is small relative to its net income. Firm N is a relatively new firm in a new industry. Its annual operating income fluctuates considerably, but the company has substantial growth opportunities. Its capital budget is expected to be large relative to its net income for the foreseeable future. Which of the following statements is most correct?
  - A. Firm M probably has smaller cash balances than Firm N.
  - B. Firm M probably has a higher dividend payout ratio than Firm N.
  - C. If the corporate tax rate increases, the debt ratio of both firms is likely to fall.
  - D. Statements a and b are correct.
  - E. Statements b and c are correct.

编號:	286	國立成功大學一○○學年度碩士班招生考試試題	共 (頁,第(頁
系所組別	: 財務金融研究所		
考試科目	: 財務管理	/	考試日期:0220・節次:2
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20.	Which one of the fo	ollowing categories of securities tends to have the highest	average return?

- A. U.S. Treasury bills
- B. large company stocks
- C. small company stocks
- D. long-term corporate bonds
- E. long-term government bonds

## Section B: Essay Questions (20 marks)

- 1. What are the basic similarities and basic differences between warrants and call options? (10 pts)
- 2. Suppose your boss comes to you and asks you to re-evaluate a capital budgeting project. The first evaluation was in error, he explains, because it ignored flotation costs. To correct for this, he asks you to evaluate the project using a higher cost of capital which incorporates these costs. Is your boss' approach correct? Why or why not? Additionally, please list possible flotation costs for equity financing. (10 pts)