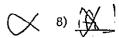
	Esser 1:2 ×8=-13
FINA 220 Spring 2004 - 2005	Essay 1 -3.
Mid-Term Examination (Version 1)	E=320,2: -3.5
Name Fadi Kerbas	MAMERICAN UNIVERSITY -7 (+4.5
Student No. 200202959	LIBRARY OF BEIRUT
	hat best completes the statement or answers the question.
historical beta of 1.25. Today, the beta for I changes in the structure of the company. T	e market rate of return is 11%. Delta Company has a Delta Company was adjusted to reflect internal The new beta is 1.38. What is the amount of the Delta Company based on this revision to beta? D) 13.7%
2) Over the long term, which one of the follo- rate of return?	wing has historically had the highest average annual 2)
A)small-company stocks	B) long-term corporate bonds
C) long-term government bonds	D) large-company stocks
 The Jennings Company has 4 million shar \$0.10 per share and is currently trading at market capitalization of Jennings is 	res of stock outstanding. The stock has a par value of 3) 6. \$18 per share. According to this information, the
A) \$400,000. B) \$7.2 million	. D) \$40 million.
 A firm has earnings before taxes of \$128 m million in preferred dividends and \$3 shares of common stock outstanding. Wh 	million and taxes of \$39 million. The company pays 4) 1 million in common dividends. There are 24 million at is the amount of the earnings per share?
A)\$3.21 B) \$3.71	C) \$3.83 D) \$1.92
5) Traditional portfolio management	5) (
) is based on statistical measures to de	velop the portfolio plan.
B) oncentrates on only the most recent	
Clincludes only diversified bonds in a	
D typically centers on interindustry div	versification.
date was July 15, the date of record was July 15, the date of record was July 15, the Limberger Corporate the Limberger Corpor	uarterly dividend of \$0.10 per share. The ex-dividend (6) uly 18, and the payment date was July 28. If you had oration and sold them on July 15, then
A) neither you nor the purchaser would	l collect any money in dividends.
B) you would collect \$5.00 in dividends	s, and the purchaser would collect \$5.00 in dividends.
the purchaser would collect \$10.00 in	n dividends, and you would not collect any dividends.
D) you would collect \$10.00 in dividend	ds, and the purchaser would not collect any dividends.
7) Holding securities in street name	7)
A) means that the brokerage firm actua	lly owns the securities.
B) allows the brokerage firm to sell sec	urities without the customers approval.
(C) makes the trading of securities easie	r and more efficient for individual investors.
enables the brokerage firm to collect services.	t the stock dividends as compensation for their
- · · · · · · · · · · · · · · · · · · ·	

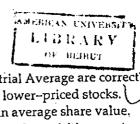




8) Systematic risks			→ , ↑ , ↑ , • •
result from random firm-specific events.	· :		
B) are unique to certain investment vehicles			
C) can be eliminated by investing in a variet	ty of economic sectors.		
D) are forces that affect all investment category	ories.		Λ
Angela placed a stop-limit order to sell 100 slength RST was \$31. Shortly after Angela placed her pending news announcement. When trading minutes the price of RST began to drop further following statements is correct concerning Ar	re-opens RST is priced er until it reached \$19 a ngela's stop-limit order	at \$24 a share. Within share. Which one of th	e
A) Angela still owns her 100 shares of stock		-Astay	
B) Angela's stock was sold for \$24 a share.	1 1004 1 1004	•	
Angela's stock was sold at a price betwee	en \$19 and \$24 a share.		
D) Angela's stock was sold for \$28 a share.			
		ofits the investor woul	d be 10) [
10) When the cost of an investment exceeds the I	present value of its bette	into, the nevestor we are	<u>‡</u>
earning a rate of return	B) greater than t	the discount rate.	
A) equal to the compounded rate.	D) less than the		
C) equal to the discount rate.	D) less than the	and contract the c	
			11)
11) A rights offering is the	c	•	
A) Initial offering of securities to the public	he general nublic		
B) sale of newly issued shares of stock to t	tie general papire		
sale of securities directly to a select gro	up of investors.	a hacie	
D offering of new securities to current sha	arenolders off a pro-rati	t basis.	
12) Peg bought a stock at a price of \$23. She rece What is Peg's capital gain on this investmen	eived a \$1.50 dividend a t?	and sold the stock for \$	525. 12)
A) \$1.50 B) \$3.50	C) \$0.50	(1) 62.00	
13) The risk of a portfolio consisting of two unc	orrelated assets will be		13) _(
A) greater than the risk of the least risky as	sset but less than the ris	k level of the more risk	cy '
asset.			
B) equal to the average of the risk level of	the two assets.		
greater than zero but less than the risk.	of the more risky asset.		
D) equal to zero.	· · · · · · · · · · · · · · · · · · ·		ř
	1 500		nance 14)
14) Courtney purchased 100 shares of stock at \$ margin is 40%. Courtney has no other secur receive a margin call?	ities in her account. At	m account. Her mainte what price will Courtn	ey
· .	C) \$26.60	(D) \$19.00	4.1
A) \$7.60 B) \$11.40		(_/	
15) Beta is the slope of the best fit line for the po and the for each one of several year	oints with coordinates r ars.	epresenting the	(15)
A) market rate of return; security's rate of	return	•	
B) rate of eturn; level of risk for an indiv			••
C) rate of inflation; rate of return for an in	dividual security		•
-X	e de la companya de	**· _*	

Darisk level of a stock; market rate of return

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I. II.	A one-point change in the DIIA	tend to affect the ave in the DJIA correlates are made to reflect co	ow Jones Industrial Average more than lower- to a \$1 change in avera mpany mergers and ac te average was created	priced stocks. _/ age share value. equisitions. \/	16)
) I, III and IV only		B) II and IV only		
) I, II, III and IV		(D) and III only		٨
17) Av	erages and indexes dif	fer from one another	in that an index		17) +
.A) measures the current an earlier point in tir	t price béhavior of a q ne.	group of stocks in relati	ion to a base value set at	
	have any meaning.			ed to a historical figure to	
C) is the arithmetic ave	rage price behavior o	f a group of stocks at a	given point in time.	
D	always moves up be before a correspondi	fore a corresponding	average moves up, and	d always moves down	^
18) Ro	b owns 300 shares of E clared a 3-for-1 stock	lackwood common s split effective tomorr	stock valued at \$9 a sha ow. After the split, Rob	willown	18) 1
	s) 100 shares valued at		(B) 900 shares val	ued at \$3 a share.	
	C) 100 shares valued at		D) 900 shares val	lued at \$27 a share.	
1	a rights offering, the A) amount of debt in the B) total equity remains increases.	ne capital structure in s constant while the n	creases by the amount umber of shares of con	of the rights offering. nmon stock outstanding	19)
	C) underwriter offers	he investing public a	certain number of shar	res at a certain price.	1
2	existing stockholder to their current owr	rs are given the first o	pportunity to purchas	e new shares in proportion	
20) To	o determine the compo vestors typically use t	ounded annual rate o ne present-value-bas	ed measure known as	held for more than a year, yield or	20)
	A) simple return.		B) inflation-adju	usted return.	
	C) holding period retu	ırn.	D) internal rate of	of return.	
21) If	the present value of a osts, then the investor v	n investment's benefi would earn a	ts equals the present va	llue of the investment's	21)
	A) return greater than		B) return equal	to the discount rate.	•
•	C) negative rate of reb	•	D) 0% rate of rel	The second secon	•
22) R	ov is going to receive	a payment of \$5,000 c	ne year from today. He	e earns an average of 6% on	22) <u>B</u>
h	is investments. What is	s the present value of	this payment?		
	A) \$5,300	(5)\$4,717	C) \$4,821	D) \$5,000	
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	<u> </u>		•
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A stock's hote velve in		IBRARY OF BEIRUT	<u> </u>
(32) A stock's beta value is a measure of A) diversifiable risk.		BEIRDY	× 331 7
	B) total risk.		32)
Osystematic risk.	D) interest ra	ate risk.	
(33) An investment produced engage	<i>\(\mathcal{C}\)</i>		N.
A) 4.2%	eturn of 4%, 8%, 14% a	nd 6%, respectively, over t	He 33)
A) 4.3% B) 4.6%	ation of these returns?	•	-12
D) 4.0%	(C)A.1%	D) 3.7%	
34) The required rate of return on the Daisy C rate of return in the market is 1%, and the	Orbonis I		_
rate of return in the market is 1%, and the the risk premium associated with Daisy's s	orporation's common's market's risk-free rate	stock is 11%, the current rea of return is 4%. In this case	al 34)
A) 8%. B) 6%.			
	C) 5%.	· (10)7%.	
35) The Capital Asset Pricing Model (CAPM) is	S a mathematical 3		
A) positive relationship between risk and	rahim . ,	el that depicts the	35)
B) standard deviation between a risk pres	misses and		
C) difference between a risk-free return a	micini and an investme	nt's expected return.	
D) exact price that an investor should be	nd the expected rate of	inflation.	
D) exact price that an investor should be v			`
36) The market rate of return increased by 8% v 4%. The beta of XYZ stock is	while the retains	20.00	
4%. The beta of XYZ stock is	vime die rate or return	on XYZ stock increased by	36)
A) 2.0. B) -0.40.	(C) 6 50	73.	<u></u>
	(2) 9.50.	D) -2.0.	•
37) Angie places an order to buy 250 shares of s	tock. This is an order fo	nr	
A) two hundred round lots and fifty odd le	ots.	<i>.</i>	37) (
B) two odd lots and one round lot.		t _{ee}	
C) Tryo round lots and one odd lot.	in the second		9
D) five round lots.			
. L. J.	5.		
38) The markets in general are paying a 2% real restock commands a 6% risk premium. What is	rate of return Inflation	in average to the same	
stock commands a 6% risk premium. What is	the risk-free rate of rel	is expected to be 3%. ABC	38)
(A) 5% B) 2%	C) 8%		
20) M		D) 11%	
39) The beta of the market is	1 .		an 1/2
A) 0.0. (B) 1 ₄ 0.	C) -1.0.	D) undefined.	39) /
40) 1471 : 1	4		
40) Which of the following statements about the control of the CV is a measure of relative dispersion	oefficient of variation (CV) are correct?	1 10 R
I. The CV is a measure of relative dispersion	ı .) and coxiecti	$\sqrt{40}$
II. The CV is useful in comparing the risk of a III. The CV is calculated by dividing the stand	assets with differing av	erage or expected returns:	·
III. The CV is calculated by dividing the stand IV. The higher the CV of an investment, the lo	lard deviation by the av	erage or expected return.	
A) I, II and III only	(1 C1 115 115K.	•	
C) I and IV only	B) I and III only		
, sayar olay	D) I, III and IV onl	y	** .
41) The efficient frontier			
	1		41)
B) provides the highest level of sixty (1.1)	a on risk and return cha	racteristics.	· · · · · · · · · · · · · · · · · · ·
Dy provides the highest level of risk for the lo	west level of return	··	
C) represents the best attainable tradeoff betw	een risk and return.	<u> </u>	· · · — · · · · · · · · · · · · · · · ·
D) is represented by the rightmost boundary of	of the feasible set of por	tfolios.	



42) The following data has been gathered concerning a particular investment and conditions in the market. 4.5% Risk-free rate 11.0% Market return Beta of investment 1.35 According to the Capital Asset Pricing Model, the required return for this investment is C) 14.9%. B) 12.9%. A) 8.8%. 43) Most investors are risk-averse, which means they A) refuse to accept any financial risk. B) gain satisfaction from the excitement of risk. C) invest only in government insured securities. D) require an increase in return for any increase in risk. 44) The value that investors place on a stock is called its (B) investment value. A) par value. D) liquidation value. C) book value. 45) The common shares of the Owl Company have a book value of \$10.80 and a market value of \$14.30. The company pays \$0.14 in dividends each quarter. What is the dividend yield? C) 1.3% B) 1.0%. A) 5.2%

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ROBLEM AND ESSAYS. (Answer the following question within the allocated space)

1) Identify and discuss five sources of risks that face investors. (7.5 points)

Indos

The 5 sources of nisk are. Business Risk, Sel Fredoring Risk, Market Risk and Event 12:5k.

Discripciola to a contain extent.

Business nisk is a diversifiable form of nisk, directly a to the company at hand, Rag risk associated with buying Stocks, = b Corrupt management,

Ludustry cisk is a cisk that can be diversified that is re to all firms in a certain industry. egiall sales drop in winter due to less demand and increase ins

Sector. ! Hotel risk involved with investing in a .. sector of the worket, this risk is also divers, eg: The tech sector plungered mostly during the For In Kor Crash of 2000, all other sectors were affectived to the extent of L. of it hat to the extent of the tech sector.

Market Risk is non diversifiable risk except with stock heguthe correlation, it is the risk invol with the whole Market that is also mated interest rates and inflation,

Event Risk is the risk that comes with acertain was taking place, the wost obvious historical are rist is the septill banking of the WTC shook the world markets.

This is actuable 7 It is diversition



2) Explain the "Separation Theorem" and discuss the reason behind its theoretical importance. (7.5 points)

the separation theorem, is the theorem used to find the optimon portfolio, that which is the making return for the minimum rists over theoretical importance lies in the fact that even though the optimon portfolio is virtually imported achieve the best passible possible portfolio or hornal circustances, with the proper of reaching the efficient frontier, where one can find the pest trade off between not and notorn. There of the possible portfolio or the efficient frontier, where one can find the pest trade off between not and notorn.

This is regardles of ones risk proferences inportal

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3) Given a portfolio consisting of 100 share of stock A and 200 shares of stock B having the following attributes: (15 points)

Price of stock A: \$50

Price of stock B: \$35

Expected return on stock A: 10%

Expected return on stock B: 12%

Standard deviation of return on Stock A: 2%

Standard deviation of return on stock B: 5%

Correlation between returns of both stock:

- Derive the portfolio expected return.
- Derive the standard deviation of portfolio returns
- c. Assuming that:
 - Correlation between returns on stock A and market returns is 1.6
 - Correlation between returns on stock B and market returns is 1.1
 - Standard deviation of market returns is 1%
 - Calculate the Beta of stock A
 - ii. Calculate the Beta of stock B
 - iii. Calculate the Beta of the whole portfolio

a) Retornon partiolio. =
$$(\omega, \Gamma_1)$$
 + $(\omega_2 \Gamma_2)$

$$\omega_1 = (100 + 50) / (100 + 50) + (200 + 35) \qquad \omega_2 = 7000 / 12000$$

$$= 5000 / 12000 \qquad \omega_2 = 58.33 \%$$

$$= \omega_1 = 41.67 \%$$

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b) SD of portfolio = $[(\omega, \omega)^2 + (\omega_2 \omega_2)^2 + 2(\omega, \omega_2)(\sigma_1 \omega_2)^2 + (\omega_2 \omega_2)^2 + 2(\omega, \omega_2)(\sigma_1 \omega_2)(\sigma_1 \omega_2)^2 + (\omega_2 \omega_2)^2 + 2(\omega, \omega_2)^2 + 2$

stadard deviation of portfolio = 3,61677.

C) i)
$$\beta_A = \frac{\cos A_{A,M}}{|\nabla_A|^2}$$
 $\cos A_{A,M} = \int_{A_{A,M}} |\nabla_A| \int_{A_{A,M}} |\nabla_$

10