

Ac F321 Midterm 2018 MOCK Exam Paper Solutions

Investments (Lancaster University)



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LANCASTER UNIVERSITY MANAGEMENT SCHOOL DEPARTMENT OF ACCOUNTING AND FINANCE MIDTERM TEST LENT TERM 2019 Lent Term, 2019

COURSE NUMBER: ACF 321
COURSE NAME: INVESTMENTS
EXAM DURATION: 45 MINUTES
READING TIME: 15 MINUTES

TOTAL MARKS: 25 NO. OF PAGES: 4

AUTHORISED MATERIALS:

• Non-programmable calculators are permitted. Calculators with the ability to enter and/or retrieve text are NOT permitted.

INSTRUCTIONS TO INVIGILATORS:

- Writing is NOT permitted during reading time.
- Please check that the library card number is recorded correctly on the answer sheet.
- This exam paper should be collected at the end of the exam.

INSTRUCTIONS TO STUDENTS:

- Please write your library card number and your name in the correct place on the answer sheet.
- Writing is NOT permitted during reading time.
- ANSWER ALL QUESTIONS.
- The test consists of ten propositions. For each, say whether the proposition is true
 or false, giving a careful explanation for your answer. Each question is worth the
 same number of marks; marks will be awarded according to the quality of your
 explanation.
- All answers must be written in this booklet itself.



1.	Securities with a positive Jensen's alpha are overpriced.					
	-	True	-	<u>False</u>		
	FALSE. Securities with a positive Jensen's alpha are above the SML, and they are underpriced. Positive Jensen's alpha indicates the securities returns are greater than those predicted by CAPM, or that the securities is undervalued (its price is lower than it should be).					
2.		n reduce the volatility of a portfolio through diversification, lio that has lower volatility than the least volatile share in				
	-	True	-	<u>False</u>		
		. For example if two shares are uncorrelated and have weighted portfolio of the two shares will have a vola				
3.	If two sh	nares have a beta of one, they must be positively correlated	ed with	each other.		
	-	True	_	<u>False</u>		
	FALSE. If their idiosyncratic risks are large enough and negatively correlated with each other, the correlation between the two shares could be negative.					
 In short-sale transaction, the lender's revenue is proportional to the profit of the short-seller. 						
	-	True	-	<u>False</u>		
FALSE. In a short-sale transaction, the lender's entire revenue is derived from the interest generated by the proceeds of the short sale that are deposited with the lender as a collateral.						
5.	_	e Pricing Theory says that if there is no arbitrage then by a small number of factors.	all shar	e prices must be		
	-	True	-	<u>False</u>		
	False. The APT assumes that all share prices are driven by a small number of factors.					

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6.	According to the Carhart four-factor model, greater the momentum of a stock, lower is its expected rate of return.			
	_ True	<u> </u>		
	-	our-factor model, expected return increase with that the Momentum portfolio represents, and is stock itself.		
7.	7. You are contemplating adding another security to your pre-existing portfolio. you have identified a particular foreign share, with a very low correlation portfolio. If you are a mean variance optimizer, you should add some of the foreign your portfolio because of its low correlation with your portfolio.			
	True	<u> False</u>		
	FALSE. The decision to add a new share is not driven by its correlation with the pre-existing portfolio, but by its Jensen's alpha. Add the security if it has a positive alpha, short it if it has a negative alpha, and ignore its alpha is equal to zero.			
8.	The Roll Critique (1977) says that the CAPM is wrong.			
	_ True	<u>False</u>		
	FALSE. The critique does not say the CAPM is wrong or meaningless. Instates that the market portfolio that is central to the testing of CA unobservable in practice. Therefore, the critique speaks to the (un) testal CAPM, not to its theoretical validity.			
9.	over-estimate the expected future year, and under-estimate the expect	ons of the CAPM hold apart from one: all investors return of shares that have done well the previous sted future return of those that have done badly. In o longer hold the market portfolio plus cash or		
	_ True	<u>False</u>		
	FALSE. They all agree on means and variances, so they all agree which equiportfolio has the highest Sharpe ratio, and they all want to hold it plus cash borrowing. That portfolio must be the market portfolio. The composition of market portfolio would be affected by the over estimation and under estimation returns, but they would still all hold the market portfolio.			

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(approximately) equal to 7.2%.



10. Assume that weekly volatility of stock returns is 1%. The annualized volatility will be

<u>True</u> False

TRUE. To annualise weekly volatility of returns, multiply by the square root of the number of weeks in a year. With the square root of 52 being 7.2, the annual volatility is $7.2 \times 1\% = 7.2\%$.

END OF QUESTION PAPER

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