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MCT-072

0803

MBAFM / MBAMAFCI

Term-End Examination June, 2012

MCT-072 : QUANTITATIVE AND STATISTICAL TECHNIQUES FOR FINANCIAL MARKETS

Maximum Marks: 100 Time: 3 hours Attempt any five questions. Note: Explain the fundamental Betas with appropriate 1. 20 examples. What is APT and give a simple proof of APT with 20 2. appropriate example? How will you estimate and test APT? The 'risk premium', that is the maximum amount 3. 20 that an individual is prepared to pay to convert a random distribution into a perfectly certain income, measure the degree of risk associated with such a distribution for all investors. (a) Is this statement correct? Prove your answer graphically using (b) hypothetical numerical example.

4.	porti expe Wha Sup	n investor who ignores risk will diversity his rtfolio; an investor who ignores the portfolio's pected returns will diversify his portfolio." nat is your opinion of these two statements? pport your answer with graphical esentation.					
5.	Euro ever	efficiency curves of an American and an opean investor are not necessary the same if they are confronted by the same stment opportunities. Appraise.	20				
6.	(a)	Distinguish between a close-end and open-end investment company. What are the investment objectives of open-end investment company.	10				
	(b)	"In a perfect market there is no need for mutual funds." Appraise.	10				
7.	(a)	What is the assumption underlying a perfect capital market? How would you go about testing the realism of these assumption?	10				
	(b)	Define the 'market line for the case of single stock and multiple stock portfolio? (i) When the borrowing rate equals the lending rate?	10				

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8.

(ii)

differ?

When the borrowing and lending rate

20