MCT-072

MASTER OF BUSINESS ADMINISTRATION IN FINANCIAL MARKETS (MBAFM)

Term-End Examination December, 2012

MCT-072 : QUANTITATIVE AND STATISTICAL TECHNIQUES FOR FINANCIAL MARKETS

Time : 3 hours

Maximum Marks: 100

Note: Attempt any five questions.

- Explain measuring the tendency of Beta to regress 20 towards one-Blume's Technique. Explain Beta's as forecasting correlation coefficients.
- What is APT and give a simple proof of APT with 20 appropriate example ? Specify the influence affecting the return-generating process.
- The TCS (two stage criterion) reduces the MVC 20 (Mean-variance criterion) efficient set by systematically eliminating options with low variance. Appraise this statement and support your conclusion by giving appropriate numerical example.

- Define and graph the efficiency locus for the 20 two-asset case of bonds and cash. Why is an individual willing to hold part of his liquid reserve in the form of cash ?
- 5. "Since U.S. stock represent high return low risk 20 investments relative to the rest of world, an American investors should not include foreign stock in their portfolio". Appraise.
- 6. (a) Define "reward to variability" and "reward 10 to volatility". Which of these indices provides the more general measure of performance ?
 - (b) "In a perfect market there is no need for 10 mutual funds". Appraise.
- 7. (a) It has been said that the prices of risky 10 alternatives are determined in a perfect capital market as if there were only one investor. Do you agree ? Explain.
 - (b) What is the general equilibrium relationship 10 between risk (variance) and return which must be hold for every risk assets in a perfect market ?
- "A risk averter will enter a fair game of chance". 20 Prove this statement graphically. In your answer, indicate the 'risk premium' necessary to induce him to agree to pay.

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