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## MASTER OF BUSINESS ADMINISTRATION IN FINANCIAL MARKETS (MBAFM)

## **Term-End Examination**

00845

December, 2014

## MCT-072 : QUANTITATIVE AND STATISTICAL TECHNIQUES FOR FINANCIAL MARKETS

Time : 3 hours

Maximum Marks : 100

**Note :** Attempt any **five** questions. All questions carry equal marks.

- 1. What are Discrete and Continuous random variables ? How is the expected value and variance of a discrete random variable calculated ?
- **2.** Explain the following :

10+10=20

20

- (a) Normal Distribution
- (b) Binomial Distribution
- 3. What do you understand by 'Expected value' and 'Expected return' ? Explain why expected, required and realized returns are often different ? 20

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<b>4.</b>	Explain the following in detail : 10+1		10+10=20
	(a)	Delta	
	(b)	Gamma	
5.	Desc	ribe the basic arbitrage pricing theory	model
	of tw	o factors.	20
6.	Expl	ain the CAPM theory and its validity	in the
	Capi	tal Market.	20
7.	Wha	t are the factors affecting options' pr	rices ?
	How	are the upper and lower bounds for op	ptions'
	price	as calculated ?	20
8.	Wha	t do you understand by hedging ? D	iscuss
	the v	various hedging strategies using future	es and
	optio	ons.	20