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MCTE-089

EXECUTIVE MASTER OF BUSINESS ADMINISTRATION (EXMBA)

0032

Term-End Examination

December, 2013

MCTE-089 : FINANCIAL ENGINEERING AND RISK MANAGEMENT

Time: 3 hours

Maximum Marks: 100

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

- 1. How are multiple year holding stock prices estimated with two stage and three stage growth models?
- 2. Discuss the procedure for calculating the value of a call option as per the Black and Scholes model. What assumption underline the Black and Scholes model?
- 3. Describe a future contract and explain the mechanics of future trading, highlighting the concept of margin.
- 4. What is duration and how is it calculated? Discuss the important characteristics of duration and explain how volatility of a bond is related to its duration?
- 5. What are 'structured products'? Discuss the investors (buyers) and issuers (sellers) motivation in buying and selling these kinds of financial securities.

- 6. What is credit risk? Discuss the use of various credit derivatives to mitigate the credit risk.
- 7. Explain the concept of risk adjusted performance measurement and explain the Sharepe and Treynar measures.
- 8. What is the purpose of portfolio protection? Briefly explain the concept of dynamic hedging.