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of Black Scholes M10114 4M10 the short for and poster

M. B. A. IV Sem. (Main / Back) Exam., April - May 2017 M – 410 Financial Derivatives (Major - I)

Time: 3 Hours

Maximum Marks: 70

Min. Passing Marks: 28

Instructions to Candidates:

- (i) The question paper is divided in two sections.
- (ii) There are sections A & B. Section A contains 6 questions out of which the candidate is required to attempt any 4 questions. Section B contains short case study / application based question which is compulsory.
- All questions carry equal marks. (iii)

1. NIL

2. NIL

SECTION - A

- Q.1 Define Derivatives. Explain the types and current status of derivatives in [2+7+5=14]
- Q.2 What do you mean by forward contract? How it is different from future contract? Write the various types of orders of future contract. [2+6+6=14]
- Q.3 (a) What is Marking to Market? Explain the meaning of initial margin and maintenance margin in future contracts using a imaginary example. [7]
 - (b) What do you mean by Risk Management? Discuss the framework of Risk measurement and management. [7]

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Q.4	(a) What are the determinants of option pricing? Write the Assumptions and formula
	of Black Scholes Model to calculate the value of call and put option. [7]
T.	(b) A stock is trading at 600₹ today. What would be the fair value of a futures
	contract on the stock maturing after 90 days, if risk free interest rate is 12% and
	after 45 days, the stock is expected to give a dividend of 30₹? What would be
	the fair value of the futures contract be if there were no dividends? Assume
s: 70	annual compounding. [7]
Q.5	Define option contract. Write the types of option contracts. Briefly explain the trading
	mechanism of option contract. [2+5+7=14]
Q.6	Write notes on:
fo m	(a) Interest Rate Swaps v/s Equity Swaps [4]
	(b) Butterfly spread strategy of option contract [3]
	(c) Vega and Rho in Risk Management [3]
	(d) Put call parity theorem [4]
	SECTION - B
0.7	A sugarcane trader is expecting a stock of 200 MT from various farmers to be
2.,	available to him after 3 months, next April. In the normal course, the price of
	sugarcane in the month of April remains at 80₹ per quintal (800₹/MT). As a bumper
	sugarcane crop is anticipated, he is worried about a fall in prices. Futures contract in
	sugarcane is not available. However, futures in sugar are available, and 3-m contracts
	of 10 MT each are selling for 800₹ per quintal (8000₹/MT).
	How can the trader hedge his position using futures contract in sugar, assuming the
	price of sugar and sugar cane are positively correlated? [14]
	price of sugar and sugar cane are positively correlated.
	(b) What do you mean by Risk Management? Discuss the framework of
	measurement and rapasgement.
	그 이 15일 경우 이 교육 지원 사이 가장 수 있는 사람들은 것이 되는 것이 없는 것이 없었다.

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