05111/ CUL/R-01

MASTER OF BUSINESS ADMINISTRATION FOURTH SEMESTER MANAGEMENT OF FINANCIAL DERIVATIVES MBA-404C

Dura	tion: 3 hrs.	Full Marks: 70			
Гime	; 20 min.	A: Objective) Marks: 20			
CI	noose the correct answer from the fol	lowing: 1X20=20			
1.					
	c. Underlying Asset	d. None of the above			
2.	contract is traded in over	er the counter			
	a. Forward	b. Futures			
	c. Option	d. All of the above			
. 3.	One of the most important services provided by the derivatives is to control, avoid, shift and manage efficiently different types of through various strategies.				
	a. Price	b. Risk			
	c. Return	d. All of the above			
4.	serve as barometers of the future trends in prices which result in the discovery of new prices both on the spot and futures markets.				
	a. Forward contract	b. Futures contract			
	c. Option contract	d. Swap contract			
5.	The term refers to the financial instruments whose value is determined on the basis of the price movement of the equity.				
	a. Equity Derivatives	b. Commodity Derivatives			
	c. Financial Derivatives	d. None of the above			
6.	Financial derivatives include:				
	a. Stocks	b. Commodity			
	c. Real Estate	d. All of the above			
7.	O				
	a. Price discovery	b. Faster dissemination of information •			
	c. Reducing cost of credit	d. All of the above			
8.	The derivatives which confers a rig	ht without an obligation to buy or sell another			
	a. Forward derivatives	b. Future derivatives			
	c. Option derivatives	d. Swap derivatives			

 A right to buy the underlying asset at predetermined price within specified interval of time

A	b. Commodity-for-interest swap d. None of the above b. Nifty d. S&P CNX in the interest rates, Inflation rate tivities, political factors, changes in tab. Unsystematic risk d. Internal risk			
A	b. Commodity-for-interest swap d. None of the above b. Nifty d. S&P CNX in the interest rates, Inflation rate tivities, political factors, changes in tab. Unsystematic risk			
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A	b. Commodity-for-interest swap d. None of the above b. Nifty d. S&P CNX in the interest rates, Inflation rate			
A	b. Commodity-for-interest swap d. None of the above b. Nifty d. S&P CNX			
Aswap is a swap where excl price of an underlying commodity a. Fixed-Floating swap c. Both 'a' and 'b' The index of National Stock Exchange is a. Sensex	b. Commodity-for-interest swap d. None of the above b. Nifty			
A swap is a swap where excl price of an underlying commodity a. Fixed-Floating swap c. Both 'a' and 'b' The index of National Stock Exchange is	b. Commodity-for-interest swap d. None of the above			
A swap is a swap where excl price of an underlying commodity a. Fixed-Floating swap	b. Commodity-for-interest swap			
A swap is a swap where excl price of an underlying commodity				
Aswap is a swap where excl	hanged cash flows are dependent on the			
c. Option	d. forward			
a. Swap	b. Future			
A is a derivative contract whe contract on cash flows in near futures.	here two parties agreed to performand			
	d. None of the above			
	b. Maturity date			
time when the option can be exercised is called				
	b. Discrete time model d. All of the above			
The binomial model of stock price movement				
c. Spot price	d. All of the above			
a. premium	b. Strike price			
The predetermined price at the time of becan be exercised is called	dying/writing of an option at which			
	b. Write d. All of the above			
called				
The person who obtains the right to buy or	r sell but has no obligation to perform			
c. Both 'a' & 'b'	d. None of the above			
	b. Put option			
. A right to sell the underlying asset at predetermined price within a speci				
c. Both 'a' & 'b'	b. Put option d. None of the above			
	A right to sell the underlying asset at pinterval of time a. Call option c. Both 'a' & 'b' The person who obtains the right to buy o called a. Holder c. Seller The predetermined price at the time of becan be exercised is called a. premium c. Spot price The binomial model of stock price movem a. Binary Model c. Double movement model The right to exercise the option is valid time when the option can be exercised is ca. Strike date c. Both 'a' & 'b' A			

	a. Hedging, asset allocation enhancement c. Risk, return & security	& yield	b. Hedging, arbitrageur d. None of the ab	speculation ove	1/8
20.	A futures contract stock index a. Stock Index c. Nifty	deals with	b. Sensex d. None of the ab		e of a

[PART-B : Descriptive]

Time: 2 HRS 40 MINS Marks: 50

[Answer question no.(1) & any four (4) from the rest]

1. Given the following information about a Share:

Current market price: Rs 50

Annual volatility: 30%

Risk-free interest rate: 10%

Find out the value of 3-month call option using Black Scholes Model with exercise price of

- (a) Rs 40
- (b) Rs 50 and
- (c) Rs 60

Note: Area under the standard normal distribution [N(d)]

d	0	d	0	d	0
0.0	0.500	0.5	0.7580	1.4	0.9192
0.1	0.5398	0.8	0.7881	1.5	0.9332
0.2	0.5793	0.9	0.8159	1.6	0.9452
0.3	0.6179	1.0	0.8413	1.7	0.9554
0.4	0.6554	1.1	0.8643	1.8	0.9641
0.5	0.6915	1.2	0.8849	1.9	0.9713
0.6	0.7291	1.3	0.9032	2.0	0.9772

- 2. What is a Derivative? Explain the different types of financial 3+7=10 derivatives.
- 3. Explain Pricing Futures on Investment Asset (Cost of Carry Model) 5+5=10 and Pricing Futures on Consumption Asset.
- 4. Explain Cash-and-Carry Arbitrage and Reverse Cash-and-Carry 4+6=10 Arbitrage.
- 5. Explicate Call Option and Put Option with the help diagram. And also justify the Binomial Option Pricing Model using three different investors as an example at three different scenarios.
- 6. What is a Swap? Explain the different types of Swap. 3+7=10
- What is a Commodity Swap? Explain the Types, Structure and 3+7=10 Valuing of Commodity Swap.
- 8. Briefly explain the concept of Stock Index. Explain Stock Index 3+7=10 Futures as a Portfolio Management Tool.

4+6=10

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