

BRAINWARE UNIVERSITY

Course - MCOM

Risk Management and Derivatives (MCM404A)

(Semester - 4)

Time allotted: 3 Hours Full Marks: 70 The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.] Group -A (Multiple Choice Type Question) $10 \times 1 = 10$ Choose the correct alternative from the following 1. Situation in which large portion of majority is borrowed from broker of investor is (i) classified as a. future investment b. forward investment c. leveraged investment d. non-leveraged investment Type of contract which involves future exchange of assets at a specified price is (ii) classified as a. future contracts b. present contract d. forward contract c. spot contract (iii) Who are the players in Future Market? a. Speculators b. Hedgers

c. Arbitragers

d. All of them

(iv)	Example of	f derivative securities is				
	a. ret	urn backed security	b.	mortgage backed security		
	c. cas	h flow backed security	d.	interest backed security		
(v)	If Buy Cal	l and Put Option are made at diffe	erer	nt exercise prices is known as		
	a. Str	angle	b.	Straddle		
	c. He	dging	d.	None of the above		
(vi)	Using futures contracts to transfer price risk is called					
	a. div	ersifying	b.	arbitrage.		
	c. spe	culating.	d.	hedging.		
(vii)	Hedging a	long position in jet fuel by a short	rt po	osition in crude oil, is an example of		
	a. Lo	ng Hedge	b.	Short hedge		
	c. Cro	oss Hedge	d.	None of the above		
(viii)	Gains and losses on future positions are settled					
	a. by	signing promissory notes	b.	each day after the close of trading		
	c. wit	hin five business days	d.	through Demat account insta cheques		
(ix)	If price inc	reases over a life of a future cont	rac	t, it is a case of		
	a. No	rmal backwardation	b.	Contango		
	c. Bo	th of the above	d.	None of the above		
(x)	The futures contracts are marked-to-market on a					
	a. Da	ily basis	b.	Weekly basis		
	c. Mo	nthly basis	d.	None of the above		

Group - B

Group – B						
		(Short Answer Type Questions)	$3 \times 5 = 15$			
Ans	swer a	any three from the following				
2.	Wh	at do you mean by "In-the-money" and "Out-of-the- money"?	[5]			
3.	Wh	at are the advantages & disadvantages of Hedging?	[5]			
4.	Wh	at are the different types of Business Risks? Explain them.	[5]			
5.	5. Calculate the value of call if the spot price is Rs. 30/-, exercise price is Rs. 25, time to expiry is 3 months, risk free rate of return is 5% and the standard deviation of return is 0.45.					
6.	Def	Define Long & Short Positions.				
Group – C						
(Long Answer Type Questions)						
Ans	wer aı	ny three from the following				
7.		A Wheat farmer in order to protect himself from price fluctuations sells 15 futures contracts of 5000 bushels each at the rate of Rs. 9.00 per bushel. At the time of harvest which is five months from now, the basis is -0.15 and the price of wheat per bushel is Rs. 9.50. Did the	[16]			
		farmer gain or lose and by how much amount?	[15]			
8.		Briefly explain the Black-Scholes Model.	[15]			
9.		Briefly explain with example the Binomial Option-Pricing Model.	[15]			
10		Discuss in brief the emerging issues in Indian Derivative Market.	[15]			
11	(a)	What do you understand by Volatility? Give example.	[8]			
	(b)	What is Var? Explain it with example.	[7]			