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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

MBA - SEMESTER-IV • EXAMINATION-SUMMER • 2014

Subject Code: 840203 Date: 28-05-2 Subject Name: Risk Management (RM)				
Tiı	-	0.30 am - 13.30 pm Total Marks: 70		
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Q.1	(a) (b)	Write a note on : Market Order & Stop Loss Order What are derivatives? Explain its functions.	07 07	
Q.2	(a)	Discuss each of the following type of traders in a derivatives market- Hedger & Speculator.	07	
	<b>(b)</b>	Explain how futures contracts differ from forward contracts?  OR	07	
	<b>(b)</b>	What is Marking –To- Market?	07	
Q.3	(a) (b)	What is open interest? Assume that the futures price of gold contracts is INR 30,500 and the spot price of gold is INR 30,800 during the tender period. The price is for 10 g of gold and each futures contract is for 10 g. What transactions would an arbitrager undertake? What would be the arbitrager profit?	07 07	
Q.3	(a)	OR Should hedging be undertaken? Support your answer with a suitable	07	
Q.D	(b)	illustration.  On September 3, BSE sensex 30 is at 21,140.BSE Sensex future with an expiry on October 27 are available at a price of 21,360.The contract multiplier is 15.Calculate the cash flow for the following if the BSE sensex 30 has a value of 21,520.  (i) You take a long position in five BSE Sensex 30 futures contracts on September 3.	07	
		(ii) You take a short position in three BSE Sensex 30 futures contracts on September 3.		
Q.4	(a)	A certain stock is selling currently at Rs 72. An investor, who feels that a significant change in this price is unlikely, in the next three months, observes the market prices of 3-month calls as tabulated below:  Exercise Price  Call Price (Rs)  11  70  8  75  6	07	
		The investor decides to go long in two calls-one each with exercise price Rs 65 and Rs 75- and writes two calls- with an exercise price of Rs 70.Determine his payoff function for different levels of stock price. Also, find his profit/loss when the stock price at maturity is (i) Rs 63. (ii) Rs 68, (iii) Rs 73, and (iv) Rs		
	<b>(b)</b>	80. What are options contracts? Explain its characteristics.  OR	07	

Q.4	(a)	Consider the following information with regard to a call option on the stock of ABC company. Calculate the call option value using Black And Scholes .Current price of the share, S0 = Rs 120. Exercise Price of the option, E = Rs 115 Time period of expiration = 3 months. Standard derivative of the distribution of continuously compounded rates of return $\sigma=0.6$ . Continuously compounded risk-free interest rate, $r=0.10$	0'
	(b)	The XYZ Option lot size is 375.Its share price as on September 1 is INR 1,111.35.A put option with the exercise date of November 26 and an exercise price of INR 1,140 is priced at INR 116.15.If Put-Call parity holds, what will be the price of the call option with the exercise date of November 26 and an exercise price of INR 1,140?	07
Q.5	(a) (b)	What are Swaps? Explain its types. What are currency futures? Explain advantages of exchange traded currency futures.	07 07
		OR	
Q.5	(a)	What do you understand by commodity futures? What are the benefits of commodity futures at national level?	07
	<b>(b)</b>	Write about economic function of the derivatives	07

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