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Q.2

GUJARAT TECHNOLOGICAL UNIVERSITY MBA - SEMESTER 4 - EXAMINATION - WINTER 2018

Time:02:30 Instructions: 1. Att 2. Ma	le:2840202 ne: Risk Management pm To 05:30pm empt all questions. ke suitable assumptions wherever new ures to the right indicate full marks.	cessary.	Date:07/ Total M	/12/2018 Iarks: 70
Q.1(a)	Multi choice Questions:			6
1.	provide the right to pur specified price on or before specific	_	ven no. of shares at a	
	A. Puttable BondsC. Callable Bonds	B.	Warrants ESOP	
2.	IMM began under CME in which y	ear?		
	A. 1710		1919	
	C. 1972	D	1973	
3.	Identify the moneyness of option fr			
	Put option with strike price – 100 I A. ITM- 30 Rs.		ATM	
	C. OTM- 30 Rs.		Can't be determined	
4.	Which is not the approach to Risk	Manageme	ent?	
	A. Selective Hedging	3 \	Do Nothing	
	C. Cover Everything	D.	None of the above	
5.	The Full form of IMM is?			
	A. Indian Monetary Markets	B.	Interest rate	
			Monetary	
			Mechanisms	
	C. International Monetary	D.	International Monetary	
	Markets		Monetary Mechanisms	
6.	Which is not the assumption of Ris	ok Schole		
0.	Which is not the assumption of Bla A. American Exercise Style		Presence of taxes	
		2.	Troponos or values	
	C. Both A and B		Normally Distributed data	
Q.1	(b) Explain the terms:			04
	1. VAR			
	2. Non- Deliverable Forv	wards		
	3. Credit Derivatives4. Margin			
Q.1	(c) Explain various types of orde	rs in detail	l .	04
_				

(a) Explain the role of SEBI in regulation of Derivative market

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40.35. Ashok Leyland futures have a contract size of 9550. The
September futures expiring on September 28 are priced at Rs.
41.25 and the October futures expiring on October 26 are
priced at Rs. 41.54. The initial margin requirement is 5% of
the contract value. On September 28, the shares of Ashok
Leyland are selling at Rs. 41.83

- 1. If you buy one September contract, what is the value of the contract?
- 2. How much money do you need to post as the margin?
- 3. What would be the amount of cash settlement for September contract?

OR

(b) Following data are available for call option on a hypothetical stock, find Intrinsic Value and Time Value for both the options:

•	Option 1	Option 2
Exercise Price (Rs.)	80	85
Spot Price (Rs.)	83.5	83.5
Premium (Rs.)	6.75	2.5

Q.3 (a) Differentiate Interest Rate and Currency Swaps

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(b) Assume that stock is currently priced at Rs. 1200. There exist a call option with an exercise price of Rs. 1240 and an expiry of 90 days. At the end of 90 days, the stock price can either increase by 8% or decrease by 3%. If the risk free rate is 6%, calculate the price of the Call by using the binomial options pricing model.

OR

Q.3 (a) Explain various stock indices of the world.

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- (b) Apply Black scholes model to calculate call premium from the below data:
 - Current Market price= Rs 50
 - Annual Volatility is 30%
 - Risk free ROI= 10%
 - Time =3 months
 - Exercise price = Rs. 40
- **Q.4** (a) Explain the classification of options in detail.

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(b) Rupee / Yen Spot 0.4002

 F_{12} 0.388874

Rf for Japan is 6%

Rf for India is 3%

Investment of 1 Lakhs Yen / P.a.

Where will you invest – India or Japan?

OR

Q.4 (a) Explain the Cost of Carry model with illustration of your own.

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> **Q.5** Company A which has borrowed from the market on floating rate basis at MIBOR + 25 basis points has to pay to lenders at a floating rate. Further company considers that interest rate would rise in future in the view of rising interest rate it would like to have a liability i.e. fixed in nature rather than being variable, therefore it decided to enter into swap with a bank paying fixed 8.5% and receiving MIBOR + 30 basis point. Show the swap arrangement and interpret it.

OR

Q.5 A Merchant, wants to buy 5 cashew contracts on march 5 at 14 5600Rs each. Initial Margin is 5.5% of contract value. Contract size is 50 cartons. The variation margin is Rs. Prepare Margin Account for merchant.

March	Future Price
	(Rs.)
5	5600
6	5650
7	5675
8	5610
9	5570
12	5520
13	5400
14	5480
15	5570
16	5650
