BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CLASS: BRANCH	MBA H: MBA	((SEMESTER: IV SESSION: SP/2023			
TIME:	SUBJECT: MT509 MANAGEMENT OF FINANCIAL DERIVATIVES 3 Hours FULI				_ MARKS: 50			
1. The o 2. Atter 3. The o 4. Before	mpt all questions. missing data, if any, re attempting the q	may be assumed substitution paper, be	sure that you have got t	al 50 marks. the correct question pap adidates in the examinat		ull.		
Q.1(a) Q.1(b)	Why do future deal What is meant by u		aintain margin with the e e example.	exchange?	[5] [5]	CO 1 1	BL 2 2	
Q.2(a) Q.2(b)						2 2	2 3	
Q.3(a)	-	ions are relevant in	the context of determi	nation of future prices."	[5]	3	1	
Q.3(b)	Discuss The market price of Titan Industry Ltd. On September 1, 2010, was Rs. 3114/ The future price of the stock future contract on Titan Industries Ltd. expiring in Oct. 2010 was Rs. 3132.5. The annual interest rate for borrowing an investing funds is assumed to be 12% and the transaction cost for share trading averages to 0.5% of the transaction amount. Examine whether there was any arbitrage opportunity. If so, outline the process.					3	5	
Q.4(a)				ercised by the owner and	[5]	4	3	
Q.4(b)	what will be the consequences of a call option remaining unexercised. The current market price of a stock is Rs. 165/- The stock has a volatility of 40%, the risk-free interest rate is 10% per annum and the exercise price is Rs. 175. Using binomial tree with monthly intervals calculate - the three possible prices of the stock after two periods and the option values at the final nodes.					4	3	
Q.5(a)	Two companies, X and Y, are planning to obtain foreign currency loans. Company X desires to borrow the pound sterling while company Y desires to borrow US \$. The interest rate quoted to the companies in the two-currency market are as follows: Calculate effective rate of interest for both the parties.				[5]	5		
	Company	US dollar	Pound Sterling	Preference				
	Company X	7.00	10.6	Sterling				
	Company Y	9.00	11.0	Dollar				
Q.5(b)	Spread "Financial swaps ar	2.00	0.40	vility management tool "	[5]	5	2	
ي. J(D)	"Financial swaps are not funding instrument; they are asset liability management tool." Explain.					J	Z	