Printed Page:- 04		Subject Code:- AMBAFM0413 Roll. No:							
NO	IDA I	INSTITUTE OF ENGINEERING AN	D TECHN	OLO	<b>3Υ, (</b>	FRE	ATER	NO	IDA
		(An Autonomous Institute Affili		KTU, I	<b>Luck</b> ı	now)			
		MBA SEM: IV - THEORY EXAMI		( <b>2</b> 023 .	202	3 )			
		Subject: Financial Derivative		-					
Tim	e: 3 H	Hours			,011101		Max.	Marl	ks: 100
Gener	al In	structions:							
		y that you have received the question pap							
		stion paper comprises of three Sections	-A, $B$ , & $C$ .	. It con	sists (	of Mi	ıltiple	Choi	ce
		MCQ's) & Subjective type questions. n marks for each question are indicated o	on right -he	and sid	e of e	ach a	nuestie	าท	
		your answers with neat sketches wherev	_		coje	acri q	uesiio	71.	
		vuitable data if necessary.							
<b>5.</b> <i>Pre</i> <sub>3</sub>	ferabl	ly, write the answers in sequential order.							
		should be left blank. Any written materic	al after a bl	ank sh	eet w	ill no	t be		
evalua	ited/ci	hecked.							
SECT	TON	<b>A</b>							20
									20
	_	all parts:-			X				1
1-a.		a forward contract : (CO1)		52					1
	(a)	Can be structured by the buyer and sell	ler						
	(b)	Will have the same specification							
	(c)	Specification are decided by the SEBI	<b>&gt;</b>						
	(d)	None of the above							
1-b.		Which of the following derivatives producture uropean (CO1)	et is classifi	led as A	Ameri	can a	ınd		1
	(a)	Forwards							
	(b)	Future							
	(c)	Option							
	(d)	Swaps							
1-c.	In	n future the guarantee to fulfil the contrac	et is given b	у (СО	2)				1
	(a)	The buyer of the future							
	(b)	The seller of the future							
	(c)	Both the parties							
	(d)	The clearing corporation							
1-d.		n November the trader feels the interest rate fall in the next month. What action will			futu	re pri	ce are	goin	ig 1
	(a)	Buy near month and sell far month		- <i></i> /					

	(b)	Buy far month and sell near month	
	(c)	Buy near month and far month both	
	(d)	Sell near month and far month both	
1-e.	A	call option gives the holder the right: (CO3)	1
	(a)	To buy the underlying asset	
	(b)	To sell the underlying asset	
	(c)	To either sell or buy the underlying	
	(d)	None of the above	
1-f.	P	remium of Infosys call option is affected by which of the following: (CO3)	1
	(a)	Volatility	
	(b)	Time to expiration	
	(c)	Interest Rates	
	(d)	All of the above	
1-g.	_	party in a swap contract typically pays a fixed rate of interest. (CO4)	1
	(a)	The party with the weaker credit rating	
	(b)	The party with the stronger credit rating	
	(c)	The party with the liability tied to a fixed rate	
	(d)	The party with the liability tied to a floating rate	
1-h.	T	he main difference between an interest rate swap and a currency swap is (CO4)	1
	(a) invo	An interest rate swap involves exchanging interest payments, while a currency swaplves exchanging principal amounts.	p
	(b) invo	An interest rate swap involves exchanging principal amounts, while a currency swaplves exchanging interest payments.	ιŗ
	(c) for l	Interest rate swaps are used for short-term financing, while currency swaps are used ong-term financing.	1
	(d)	There is no difference between an interest rate swap and a currency swap.	
1-i.		Which of the following does the most to reduce default risk for futures ontracts? (CO5)	]
	(a)	Marking to market.	
	(b)	Flexible delivery arrangements.	
	(c)	High liquidity.	
	(d)	Credit checks for both buyers and sellers.	
1-j.	Н	ledging risk for a long position is accomplished by (CO5)	1
	(a)	taking another long position.	
	(b)	taking a short position.	
	(c)	taking additional long and short positions in equal amounts.	
	(d)	taking a neutral position.	
2. Atte	empt a	all parts:-	

2.a.	Define forward contract. (CO1)	2
2.b.	Discuss hedging or locking in the price of derivatives purchase or sale.(CO2)	2
2.c.	Define the term "Option".(CO3)	2
2.d.	Define the term "SWAP Market".(CO4)	2
2.e.	Explain business risk. (CO5)	2
<b>SECTI</b>	ON-B	30
3. Ansv	wer any <u>five</u> of the following:-	
3-a.	Using the names of the derivative assets, describe financial derivatives and their characteristics.(CO1)	6
3-b.	Write a note on the scope of forward contract and futures contract in India.(CO1)	6
3-c.	Define the risk involved in Derivatives Contracts.(CO2)	6
3-d.	Explain the Open market operations.(CO2)	6
3.e.	Write a note on volatility and its importance in the option pricing. (CO3)	6
3.f.	State the various features of interest rate SWAP. (CO4)	6
3.g.	Explain the steps of risk assessment. (CO5)	6
<b>SECTI</b>	ON-C	50
4. Ansv	ver any <u>one</u> of the following:-	
4-a.	Describe the participants in the derivatives market.(CO1)	10
4-b.	Do you think that derivatives market is useful for cash market? Explain the linkage between the two.(CO1)	10
5. Ansv	ver any <u>one</u> of the following:-	
5-a.	Describe the cost of carry model. (CO2)	10
5-b.	Explain the distinctions between put and call options in derivatives in detail. (CO2)	10
6. Ansv	ver any one of the following:-	
6-a.	A call option is available at Rs 6 per share for a period of 6 months at a strike price of Rs 45 per share. The current market price of the share is Rs 40 and the rate of interest is 10%. The standard deviation for the share is 0.45. Find out whether the call is rightly priced or not using Black and Scholes model .(CO3)	10
6-b.	Explain the various strategies that a trader can use while trading in currency options.(CO3)	10
7. Ansv	ver any <u>one</u> of the following:-	
7-a.	"SWAP is a private agreement between two parties in which both parties are 'obliged' to exchange some specified cash flows at periodic intervals". Explain.CO4	10
7-b.	Companies A and B both want to borrow 10 crores for 5 years and the following rates are offered:  Company A - Fixed Rate 10% and LIBOR+0.3%(Floating Rate)  Company B- Fixed Rate 11.2% and LIBOR+ 1%(Floating Rate)	10

Companies A requires a floating rate loan, company B requires a fixed rate loan. Design a SWAP that will equally attractive to both companies. (CO4)

8. Answer any one of the following:-

8-a. Summarise the steps of risk assessment in risk management. (CO5)

8-b. Various types of risks are found in business and the derivatives markets. Justify.( 10 CO5)