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NC	IDA I	INSTITUTE OF ENGINEERING A	AND TECH	NOL	OGY	[, G]	REA	TE	R NO	OID	A
		(An Autonomous Institute A	ffiliated to A	KTU	J, Lu	ckno	ow)				
		MI		T (20)		005	`				
		SEM: IV - THEORY EXA Subject: Financial Deriva		-							
Tim	ie: 3 F	_	uves & Risk	wiai	lagen	пен		Лах.	Ma	rks	: 100
		structions:					_				
		y that you have received the question									
		stion paper comprises of three Section	ns -A, B, & (C. It 6	consis	sts oj	^f Mu	ltiple	e Ch	oice	2
		MCQ's) & Subjective type questions. n marks for each question are indicate	ad an right l	and	sida e	of ag	ah a	uasti	ion		
		your answers with neat sketches whe			siue c	y eu	cn q	uesii	on.		
		uitable data if necessary.		···							
5. Pre	ferabl	ly, write the answers in sequential ord	ler.								
		should be left blank. Any written mate	erial after a l	olank	sheei	t wil	l not	be			
evalu	ated/ci	hecked.									
SECT.								.			20
	_	all parts:-			1	3 ×					
1-a.		The selection criteria for a scrip to form part of the BSE sensitive index is (CO1,K1)						1			
	(a)	The scrips must have been traded ev	ery day in th	ne las	t six 1	mon	ths				
	(b)	The company must have be dividen	d paying con	npany	7						
	(c) spec	Number of trades in the last six mnt ified by the index committee	hs should be	great	ter tha	an a	certa	ain n	umb	er	
	(d)	All of the above									
1-b.	T	he value of a derivative instrument (C	CO1,K2)								1
	(a)	Is fixed									
	(b)	Depends on the value of an underly	ing								
	(c)	Is reset at fixed intervals									
	(d)	None of the above									
1-c.	A	t any given time the clearing house no	et position w	ill be	equa	l to ((CO)	2,K2	.)		1
	(a)	Net outstanding shorts position									
	(b)	Net outstanding long position									
	(c)	Zero									
	(d)	None of the above									
1-d.		you have bought a future contract and CO2,K2)	d the price di	ops y	ou w	ill n	nake	a pr	ofit		1

	(a)	True	
	(b)	False	
	(c)	Sometimes true	
	(d)	Sometimes false	
1-e.	A	call option gives the holder the right: (CO3,K2)	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.	A	n European option : (CO3,K1)	1
	(a)	Can be exercised any time before maturity	
	(b)	Can be exercised only at maturity	
	(c)	Is traded only on the Europeon exchange	
	(d)	None of the above	
1-g.		Which of the following event has lead to an increase in the value of a call option? CO4,K2)	1
	(a)	An increase in the interest rates	
	(b)	A declining time to maturity	
	(c)	An increase in the excercise price	
	(d)	Declining price of underlying asset	
1-h.	A	call option has intrinsic value only when the strike price- (CO4,K2)	1
	(a)	Is below the spot price	
	(b)	Exceeds the spot price	
	(c)	Equal the spot price	
	(d)	Not sure	
1-i.		Thich of the following investment strategies has unlimited profit potential? CO5,K2)	1
	(a)	Writing a call	
	(b)	Bull spread	
	(c)	Protective put	
	(d)	Covered call.	
1-j.	F	utures markets have grown rapidly because futures (CO5,K2)	1
	(a)	Are standardized.	
	(b)	Have lower default risk.	
	(c)	Are liquid.	
	(d)	All of the above	
2. Att	empt a	all parts:-	
2.a.	D	refine the concept "Underlying Asset" . (CO1,K1)	2

2.b.	Give full form of OTC and NIFTY. (CO2,K1)	2
2.c.	Explain the speculators in the derivative market. (CO3,K2)	2
2.d.	Discuss interest rate SWAP.(CO4,K1)	2
2.e.	Explain unsystematic risk.(CO5,K2)	2
SECTIO	<u>ON-B</u>	30
3. Answ	ver any <u>five</u> of the following:-	
3-a.	Distinguish between forward contract and futures contract. (CO1,K4)	6
3-b.	Write a note on financial assets which can be traded in derivatives .(CO1,K1)	6
3-c.	Explain the characteristics of out and call options in derivatives. (CO2,K2)	6
3-d.	Explain the role of the derivatives market in attractive investment. (CO2,K2)	6
3.e.	Write a note on volatility and its importance in the option pricing. (CO3,K1)	6
3.f.	Explain the trading mechanism of SWAP with suitable example. (CO4,K2)	6
3.g.	State the risk management and its process.(CO5,K1)	6
SECTIO	<u>ON-C</u>	50
4. Answ	ver any one of the following:-	
4-a.	Explain the growth and development of derivatives and elaborate types of derivatives. (CO1,K2)	10
4-b.	An investor with an annual income of 15 lakhs has an option to invest in 12% taxable corporate bonds or 7% tax-free bonds. Which option should be selected by him. Explain with reasons. (CO1,K4)	10
5. Answ	ver any one of the following:-	
5-a.	"Risk is involved in derivatives contracts". How?(CO2,K2)	10
5-b.	Unilateral transfer or sale of the contract typically not allowed in forward market. Elaborate. (CO2,K2)	10
6. Answ	ver any one of the following:-	
6-a.	Discuss the various determinants of the currency option value with examples. (CO3,K1)	10
6-b.	A call option with a strike price of \$55 can be bought for \$54. Compute Net profit if you sell the call ,and the stock price is \$52 when the call expires. (CO3,K4)	10
7. Answ	ver any one of the following:-	
7-a.	Define the term "Swap Contract". Who are the parties involved in a SWAP? (CO4,K1)	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) 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,K5)	10
8. Answ	ver any one of the following:-	

- 8-a. "There are six possibilities that may constitute credit events in CDS contracts". 10 Comment.(CO5,K2)
- 8-b. Write the note on the various kinds of risk and the strategies to manage risk by various option strategies. (CO5,K1)

