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N	MOID	DA INSTITUTE OF ENGINEERING AND T						TER	NO.	IDA	
		(An Autonomous Institute Affiliated MBA	a to AK	.1U, I	Luck	now	")				
		SEM: IV - THEORY EXAMINAT	ΓΙΟΝ (2	20	- 20)					
		Subject: Finacial Derivatives and	•								
Tim	e: 3 H	Hours						Max	. M	arks	s: 100
		structions:									
		ly that you have received the question paper w									
		estion paper comprises of three Sections -A, I (MCQ's) & Subjective type questions.	σ, α с.	II COI	risisis	s OJ 1	viui	пріе	Cn	oice	
		m marks for each question are indicated on r	ight -ha	and si	de o	f eac	ch q	uesti	ion.		
		e your answers with neat sketches wherever n	C		J		•				
		suitable data if necessary.									
•		bly, write the answers in sequential order.	C. 1.1	, 1	1 .	•11		. 1			
		t should be left blank. Any written material af checked.	ter a bl	ank s	heet	will	not	be			
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SECT	ION-	<u>V-A</u>				4					20
1. Atte	empt a	all parts:-				_)				
1-a.	D	Define derivative in financial terms. (CO1,K1	.)								1
	(a)	A stock	1								
	(b)	A bond									
	(c)	A contract based on an underlying asset									
	(d)	A loan									
1-b.		NOT a type of derivative. (CO1,K1	1)								1
	(a)	Futures									
	(b)	Options									
	(c)	Swaps									
	(d)	Stocks									
1-c.		of these derivatives is commonly use	ed for c	urren	cy he	edgii	ng.	(CO	2, K	(1)	1
	(a)	Option									
	(b)	Swap									
	(c)	Forward contract									
	(d)	Mutual Fund									
1-d.	C	Choose the primary purpose of a futures exch	ange.(C	CO2, I	K1)						1
	(a)	Guarantee profits									
	(b)	Provide anonymity									
	(c)	Facilitate standardized trading									

	(d)	Avoid taxes	
1-e.	Id	lentify a common use of options for institutional investors.(CO3, K1)	1
	(a)	Currency control	
	(b)	Risk management	
	(c)	Dividend income	
	(d)	Insider trading	
1-f.	D	etermine which options are commonly cash-settled in India.(CO3, K3)	1
	(a)	Stock options	
	(b)	Commodity options	
	(c)	Index options	
	(d)	Real estate options	
1-g.	S	elect the typical duration of a forward rate agreement.(CO4, K4)	1
	(a)	Physical delivery	
	(b)	Exchange of cash flows	
	(c)	Stock issuance	
	(d)	Fixed deposit	
1-h.	D	etermine the main risk managed through interest rate swaps.(CO4, K1)	1
	(a)	Credit risk	
	(b)	Currency risk	
	(c)	Interest rate risk	
	(d)	Political risk	
1-i.	C	hoose the typical metric used to measure risk in investment portfolios.(CO5, K1)	1
	(a)	Net income	
	(b)	ROI	
	(c)	Standard deviation	
	(d)	Turnover ratio	
1-j.	S	elect a qualitative method of risk assessment.(CO5, K1)	1
	(a)	Scenario analysis	
	(b)	Standard deviation	
	(c)	Beta analysis	
	(d)	Sharpe ratio	
2. Att	empt a	all parts:-	
2.a.		xplain the key difference between exchange-traded and over-the-counter	2
		erivatives.(CO1, K2)	
2.b.		ist two key features of forward contracts that differentiate them from futures ontracts.(CO2, K1)	2
2.c.		a call option on USD/INR has a strike price of ₹83, the premium is ₹2,	2

	speculator: (CO3, K3)	
2.d.	Define financial swaps and explain their primary purpose. (CO4, K2)	2
2.e.	Define liquidity risk.(CO5, K1)	2
SECTI	ON-B	30
3. Ansv	ver any <u>five</u> of the following:-	
3-a.	Discuss the key features of derivatives and their role in risk management.(CO1, K2)	6
3-b.	Discuss the role of options in portfolio diversification and risk management.(CO1,K2)	6
3-c.	Analyze the risks associated with forward contracts and how they can be mitigated.(CO2, K4)	6
3-d.	Distinguish between futures and forward contracts in terms of trading mechanisms.(CO2,K4)	6
3.e.	Compare the Black-Scholes model and the Binomial model in terms of option pricing accuracy.(CO3, K4)	6
3.f.	Investigate how financial swaps contribute to market liquidity and financial stability. (CO4, K6)	6
3.g.	"Beta is used to measur the risk". Justify.(CO5, K5)	6
SECTI	ON-C	50
4. Ansv	ver any one of the following:-	
4-a.	Evaluate the challenges and opportunities in the Indian derivatives market.(CO1, K6)	10
4-b.	Examine the role of macroeconomic factors in influencing the effectiveness of forward contract hedging?(CO1, K5)	10
5. Ansv	ver any <u>one</u> of the following:-	
5-a.	Examine the affect of market liquidity affect speculation and arbitrage in currency futures?(CO2, K5)	10
5-b.	Evaluate the ethical considerations of speculation and arbitrage in financial markets.(CO2, K6)	10
6. Ansv	ver any one of the following:-	
6-a.	Evaluate the practical applications of the Black-Scholes model in financial risk management.(CO3, K6)	10
6-b.	Compare the risks associated with speculation and arbitrage in index options trading.(CO3, K4)	10
7. Ansv	ver any one of the following:-	
7-a.	Compare the advantages and disadvantages of fixed-for-floating and floating-for-floating interest rate swaps.(CO4, K4)	10
7-b.	Evaluate the role of currency swaps in facilitating cross-border investments and trade.(CO4, K6)	10

8. Answer any one of the following:-

8-a. "Various types of risks are found in business and derivative markets." 10 Elaborate.(CO5, K5)

8-b. "Standard deviation and beta are used to identify and measure the risk". 10 Justify.(CO5, K5)

