CMR				USN		Evalu	T				arma 15 YEARS	•
	TUTE OF NOLOGY			OBIT		1 1 1						CMRIT
			J	Inte	rnal Ass	sesment Te	st - T	Ţ			ACCREDITED WITH	TANH YERDADO
Sub:	Financia	al Derivat	tives						Cod	e: 201	MBAFM	402
Date:	11.07.20	22	Duration	n: 90 mins	s Max	Marks: 50	T	Sem:	IV Brai	nch: Mi	3A	- 1 .
								· · · · · · · · · · · · · · · · · · ·				
Part	A Anon		Cause Fault	0	(24 20	10					OE	BE.
. 641 6 2	A - Ausw	ver Any	two run	Question	s (Z* 20) = 40 mar	KS)			Marks	CO	RBT
(a)	Different	iate betwe	een maint	enance ma	argin and	d variation	marg	in.		[03]	COI	L2
						Rs.1,600 pe			6	[07]	CO1	L3
	Futures of	contract of	on this w	heat trad	ed at R	s.1,675. T	bi qui he sis	muai, a	o monin one future	[07]	COI	LS
	contract i	s 1 quinta	al. An amo	ount of R	s.25 has	to be paid s	storin	g 1 aui	ntal wheat			
						continuous						
4	p.a.						•					
	i.	Is there	any arbit	rage oppo	ortunity l	nere?						
	ii.			arbitrage	and stat	te how mu	ch pr	ofit car	n be made			
		from th			7 (1)							
(c)	Using the	followin	ig data pre	pare a ma	argin a/c	for the inv	estor.	. Assur	ne that if a	[10]	CO1	L3
						takes short						
	12% Ma	ounits,	unit price	: 18 22, no $-2/4$ th o	umber o	of contracts	1S 8,	Initial	margin =			
	3/6/2020.	Price on	the follow	ving data	n minai	margin. T	пе аа	ate of	contract is	S		
Ī		June 4	June 5	June 6	June 7	June 10	Jun	e 11	June 12			
I	Price	22.30	23.10	22.90	23.00	23.15		2.85	22.95			
(a)	Who is a	Hedger?					1		·	[03]	CO2	L1
1			ures and o	ontions						[07]	CO1	L2
					.,.	1 4 11 11				1		
(c)	A portfoli			hree secur f Shares		detailed bel		Beta	-	[10]	CO1	L3
	-	Security		5,000	Frice	per Share (I	XS.)	1.2				
	-	A B		5,000	-	20		1.8	_			
1	}	<u>Б</u>		5,000		60		0.8				
	Find I		e for this p		1			1 0.0				
	rma	ocia vaiu	c for this p	portiono.								
(a) I	Define ar	bitrage.				41			X	[03]	CO2	L
1			rence bet	ween futu	ires and	options.				[07]	CO2	
	_						TNAN	A at Da	06.72 TI		COI	L.
(c)	An invest	tor bough	it 10 1-01.	ns future	Contract	t trading or intract with	main	vi ai Ks otenanc	e margin	of [10]	COI	L
1	nitial ma	ner con	tract The	s restlem	ent price	e of T-bill	s fut	ure co	ntract for	9		
h.			follows:		Pilo							
	Laume u	T die			5	6	7	8	9			
		1	2	3 4	9					1		
ĺ	Day Price	2	96.68 96	6.63 96.5	59 96.5	4 96.50	96.55	96.6				
ĺ	Day Price	stor close	96.68 96	6.63 96.5	59 96.5 n future		96.55 96.67	96.60 . Show	the marg	in		

	Dort R	- Compulsory (01*1	0=10 marks)					
	Part D	- Compulsory (or -	X. X	+folio 0	n 1st May 2020	[10]	CO ₂	\dagger
-	l) An	investor Mr. Kairav	has constru	cted a portiono o	e given below:			
	cons							
	Sl.		Market	1101 02	(Rs.)		-	
	No	Stock	Price	(Rs.)	0.93		_ 11	
	1	Apollo Tyres Ltd.	250	1,000				
	2	Arvind Ltd.	370	950	0.69			
	3	Bata India Ltd.	580	750	0.75			
	4	Ajanta Pharma Ltd.	1,460	400	0.55			
	5	Biocon Ltd.	400	650	0.45			
	6	Exide Industries Ltd.	217	900	1.07			
	7	Federal Bank Ltd.	117 -	1,500	1.28			-
	8	IDFC Ltd.	58	3,000	0.81			
	9	Voltas Ltd.	500	500	1.52			
	10	SRF Ltd.	1,511	300	1.99		a .	
		e continuous compou		1	or the investor is			
	150	near future due to						
	000	ants to hedge the						
	nor	the investor is not						
	aw							
	are							
	por							
		s expiring in July						
		00.						
	b)	market price are						
		July and August						
		lot size of 75.						
	(c)	ired to be shorted						
		to hedge the entire pe			1			
	d)	Find out the number	of Nifty futur	res contracts require	ed to be shorted to	F v		
		hedge to the extent 2020.	of 90% and 1	125%% of the ports	folio until August			
	e)	771 1 4 A 1	s of Nifty futi	ures contracts requi	red to be traded if			
		the investor descries			i i	^		

	Course Outcomes (COs)	P01	P02	PO3	PO4	POS
CO1:	Understand the mechanism of forwards/futures, options, financial swaps, various credit derivatives and VaR with their features, merits and demerits.	1a, 1b, 1c, 2b, 2c, 3c	A COLOR OF THE STATE OF THE STA			
CO2:	Assess the application of forwards/futures, options, financial	2a, 3a, 3b,				



Scheme of Evaluation

Sub:	Financial Derivatives Internal Assessment Test II – July 2022							Code:	20MBAFM402	
Date:	11/07/22	Duration:	90mins	Max Marks:	50	Sem:	IV	Branch:	MBA	

Note: Part A - Answer Any Two Full Questions (20*02=40 Marks)
Part B - Compulsory (01*10= 10marks)

Pa rt	Q	uesti on #	Description	Marks Distrib ution	Mark s
		a)	maintenance margin in the minimum amount a fution trader required to mentain his margin all morder to hold his future options. Variation margin is currealized profit or loss on Open positions	3	
		b)	So=1600. , F=1675, cerf=0.08, +=6/12		-
			F=(So+E) ext E= S. ext = 25.e-6.08) (0.5)		
			E = 24.019	7	
			So = 1690.28 Arbitrage pointibilities:		
A	1		F=1675 < 50=1690.28 = 170/12 5000 = 1		20M
9			probet = 1690.28-1675 = 15-28 -> long position in pulsue and chart position shows		(C
		c)	WW = 3/14 & 10290 = 3450 = 88000 × 151 - 2 10200, confront rapide = 200×30	x8	
			position short (4-1)		
			4 22-30 (1200) 9360 (1400)5	10	
			6 22-90 800 11,360	=	
			7 23.00 (600) 10,960		
	,		11 22.85 (200) 11500 11500	- 1	20
			(2		

	g Service	<u> 그림이라고 말았다. 일반</u> 일반 전경에 발표하다면 보고를 하면 하면 보고요. <u>그리고 말했다</u>	- 1	$\overline{}$
	a)	there is look at reducing his arrel exporure to price volatility and in a derivative market.	3	
	b)	fultures: contract to my or sell an a underlying assets at a pre-determed price on a spender date.	7	20M
2		options: It gives an opportunity to the invertor the night but not the obligation to buy or sell the arrets out a spective prove on a specific date, known as the expirey date.		
	c)	Coly- & portfolio Beta (\$p) Seewing No. 4 de prie market will Wi B. Bp 1 1000 40 600,000 0.25 1.8 act B 15000 60 900,000 0.45 0.8 036 11000 60 900,000 0.45 0.8 036	10	
	a)	from Smeet faceously buying and selling a commodity in two different markets.	3	
3	b)	Frelige broded Frelige broded Same as friture Same as friture Same as friture Same as friture Fre price Shibe price in fixed, price moves Fine payoff Price moves Price moves	7	20M

		(c)	1 96.75 7500 1900 2 96.68 (1750) 19000 4 96.59 (1000) 10750 5 96.59 (1000) 10 700 6 96.50 (1000) 15500 8 96.60 1200 23500 9 96.60 1200 23500 dayy Call on -6th day	10	
В	4	(a)	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		10M
			= 30,34, 742 27500 = 4.1 = 4 contract NO. of contracts besse for 0.96, \$= 4.01 1977, = 5-05 contracts 1257, = 5-05 contracts Reduce \$ \$60.08 = 0.769 \times 1 contracts	* ,- ,	

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