Total No. of Questions: 6

Total No. of Printed Pages:3

Enrollment No.....



Faculty of Management Studies End Sem Examination Dec-2023

MS5EF15 Financial Derivatives

Programme: MBA Branch/Specialisation: Management /

Finance

Duration: 3 Hrs. Maximum Marks: 60

of

	-	estions are compulsory. Interr should be written in full instea	nal choices, if any, are indicated. Answer ad of only a, b, c or d.	rs c
Q.1	i.	Financial derivatives include (a) Forwards (c) Futures	: (b) Options (d) All of these	1
	ii.	Which of the following is a r (a) To increase the probabilit (b) To limit exposure to risk	eason to hedge a portfolio?	1
		(c) To profit from capital gai (d) All of these	ns when interest rates fall	
	iii.	future date is called a:	res the investor to sell securities on a	1
		(a) Short contract(c) Hedge	(b) Long contract(d) Micro hedge	
	iv.	Forward contracts are risky by (a) Are subject to lack of liquid (b) Are subject to default risk (c) Hedge a portfolio (d) Both (a) and (b)	uidity	1
	v.	The amount paid for an optic (a) Strike price (c) Discount	on is known as: (b) Premium (d) Commission	1
	vi.	` '	sed at any time up to maturity is called: (b) Stock option (d) American option	1

	vii. A strangle is an investment strategy that combines:			1		
		(a) A call and a put for the same	expiry date but at different strike			
		prices				
		(b) Two puts and one call with the	(b) Two puts and one call with the same expiry date			
		(c) Two calls and one put with the	same expiry dates			
		(d) A call and a put at the same str	ike price and expiry date			
	viii.	A trader buys two June expiry cal	l options each at a strike price of	1		
		Rs. 200 and Rs. 220 and sells two	call options with a strike price of			
		Rs. 210, this strategy is:				
		(a) Bull Spread (b) H	Bear call spread			
		(c) Butterfly spread (d) (Calendar spread			
	ix.	The disadvantage of swaps is that	they:	1		
		(a) Lack of liquidity (b) S	Suffer from default risk			
		(c) Both (a) and (b) (d) N	None of these			
	х.	A simultaneous purchase and sa	le of foreign exchange for two	1		
		different dates is called:				
		(a) Currency devalue (b) (Currency swap			
		(c) Currency valuation (d) (Currency exchange			
Q.2	i.	What is option contract?		2		
	ii.	Explain in detail the various feature	es of derivatives market.	8		
OR	iii.	Discuss the different types of trade	ers working in derivatives market.	8		
Q.3	i.	Discuss any two features of forward	rd contract.	2		
	ii.	Explain in detail the mechanics of	forward market & future market.	8		
		How they are different from each	other?			
OR	iii.	Describe the different Hedging	& Arbitrage strategies used in	8		
		Future trading.				
Q.4	i.	What is payoffs from options?		2		
	ii.	Explain with proper example the	various determinants of options	8		
		pricing.				
OR	iii.	Explain Black - Scholars Merton	Model and binomial of option	8		
		pricing with proper example.				
Q.5	i.	What is principal protected notes?		2		
•		The Francisco Hotel				

- ii. Describe with proper example Straddles & Strangles trading 8 strategies involving options.
- OR iii. An Investor holds a long position of a share at Rs 110 and pays premium of Rs 10. Due to the sudden market crash he shorts the same stock at Rs 110. In this condition, what will be the payoff at different market price?
- Q.6 i. Write a short note on two types of financial swaps.
 - ii. Companies A and B have been offered the following rates per annum on a 100 lacs rupee loan for 5 year.

	Fixed Rate	Floating rate
Company A	12.0 %	MIBOR + 0.1 %
Company B	14.5 %	MIBOR + 0.9 %

Company A requires a floating rate loan; Company B requires a fixed rate loan. Design a swap test will set a bank, acting as intermediatory, 0.1 % per annum and that will appear equally attractive to both companies.

OR iii. Company X and Y have been offered the following rates per annum 6 on a \$ 5 million 10 – year investment:

	Fixed Rate	Floating rate	
Company X	8.0 %	LIBOR	
Company Y	8.8 %	LIBOR	

Company X requires a fixed rate investment. Company Y requires a floating rate investment. Design a swap test that will set a bank, acting intermediatory, 0.2 % per annum and that will appear equally attractive to both the companies.

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Q.1	i.	Financial derivatives include:	1
۷.1	1.	(a) Forwards (b) Options	
		(c) Futures (d) All of these	
	ii.	Which of the following is a reason to hedge a portfolio?	1
		(a) To increase the probability of gains	
	,	(b) To limit exposure to risk	
		(c) To profit from capital gains when interest rates fall	
		(d) All of these	
	iii.	A Future contract that requires the investor to sell securities on a	1
		future date is called a:	
		(a) Short contract (b) Long contract	
		(c) Hedge (d) Micro hedge	
	iv.	Forward contracts are risky because they:	1
		(a) Are subject to lack of liquidity	
		(b) Are subject to default risk	
		(c) Hedge a portfolio	
		(d) Both (a) and (b)	
	v.	The amount paid for an option is known as:	1
		(a) Strike price (b) Premium	
		(c) Discount (d) Commission	
	vi.	An option that can be exercised at any time up to maturity is called:	1
		(a) Swap (b) Stock option	
		(c) European option (d) American option	

	vii.	A strangle is an investment strategy that combines: (a) A call and a put for the same expiry date but at different strike prices	1
	viii.	(b) Two puts and one call with the same expiry date(c) Two calls and one put with the same expiry dates(d) A call and a put at the same strike price and expiry dateA trader buys two June expiry call options each at a strike price ofRs. 200 and Rs. 220 and sells two call options with a strike price of	1
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	х.	A simultaneous purchase and sale of foreign exchange for two different dates is called:	1
		(a) Currency devalue (c) Currency valuation (d) Currency exchange	
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Q.5	i.	What is principal protected notes?	2

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