

Plot No. 2, Knowledge Park-III, Greater Noida (U.P.) -201306

## POST GRADUATE DIPLOMA IN MANAGEMENT (2022-24) END TERM EXAMINATION (TERM -IV)

Subject Name	e: Financial Derivatives & Risk Management	Time: <b>02.00 hrs</b>
Sub. Code:	PGF41	Max Marks: 40

Note:

All questions are compulsory. Section A carries 5 marks: 5 questions of 1 marks each, Section B carries 21 marks having 3 questions (with internal choice question in each) of 7 marks each and Section C carries 14 marks one Case Study having 2 questions of 7 marks each.

SECTION - A		
Attempt all questions. All questions are compulsory.	$1 \times 5 = 5$ Ma	rks
Questions	СО	Bloom's Level
<b>Q. 1: (A).</b> Why derivatives are criticized?	CO-1	L-3
Q. 1: (B). How arbitrage works in Derivative markets?		
<b>Q. 1: (C).</b> Differentiate between buying a Call option and Writing a Put option		
<b>Q. 1:</b> ( <b>D</b> ). What is use of Open Interest in Option Chain?		
Q. 1: (E). How Credit Default Swap works? Explain.		
<u>SECTION – B</u>		
All questions are compulsory (Each question have an internal choice. Atter or B) from the internal choice) Marks	7 x 3	3 = 21
Questions	CO	Bloom's Level
Q. 2: (A). Analyze that "Black-Scholes model is an important model for	CO-2	Level L-3
pricing the option". Discuss in context to options pricing explaining the option Greeks in detail.		
Or		
<b>Q. 2: (B).</b> Explain how Futures contract can be used to hedge the portfolio against risk?		
	CO-2	L-4
<b>Q. 3:</b> (A). Suppose that March call option to buy a share for Rs 100 costs <b>F</b>		
5 and is held until March end. Under what circumstances will the holder of the option make a profit? Under what circumstances will the option be exercised? Draw a diagram illustrate how the profit from a long position in the option depends on the stock price at the maturity of the option. <b>Or</b>	CO-3	L-3
<b>Q. 3: (B).</b> List five factors that affect stock options prices, and explain how each one affects them?	,	
	CO-3	L-4
<b>Q. 4: (A).</b> Assume you're an options trader and you decide to initiate a long strangle strategy, anticipating a significant move in the stock price of company XYZ, but you're unsure of the direction of the move. You buy on	5	L-3
out-of-the-money call option and one out-of-the-money put option on XYZ stock. Details of the options:		
		1

Current stock price of XYZ: \$50		
Call option strike price: \$55		
Premium paid for call: \$3		
Put option strike price: \$45		
Premium paid for put: \$2		
Calculate:		
a) The total premium paid for the strangle.		
b) The break-even points for the strategy.		
c) The profit or loss if XYZ stock ends up at \$60 at expiration.		
d) The profit or loss if XYZ stock ends up at \$40 at expiration.		
Or		
Q. 4: (B). Differentiate between Strangle and Straddle strategies of Option		
Buying.		
	CO-3	L-2
SECTION – C		

## <u>SECTION – C</u>

Read the case and answer the questions

7×02 = 14 Marks

Questions			CO	Bloom's
				Level
Q. 5: Case Study:			CO-4	L-6
		11		
1		ollowing rates per annum on	a	
Rs 100 Cr. loan for	5 Years:			
	Fixed Rate (%)	Floating Rate (%)		
Company A	13.25	MIBOR+1.25		
Company B	15.5	MIBOR+2.75		
Company A require loan.	es a floating rate loan; Co	mpany B requires a fixed ra	ite	
- · · · •	swap that will net a bank will appear equally attracti	, acting as intermediary, 0.2 ve to both companies.	%	
Q 5: (B): Create net cash flow statement for companies.				

## Kindly fill the total marks allocated to each CO's in the table below:

COs	Marks Allocated
CO1	5 Marks
CO2	7 Marks
CO3	14 Marks
CO4	14 Marks

(Please ensure the conformity of the CO wise marks allocation as per your TLEP.)

Blooms Taxonomy Levels given below for your ready reference:

L1= Remembering L2= Understanding L3= Apply L4= Analyze L5= Evaluate L6= Create