

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

POST GRADUATE DIPLOMA IN MANAGEMENT (2023-25) END TERM EXAMINATION (TERM -IV)

Subject Name: Financial Derivatives		Time: 02.00 hrs
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.

<u>SECTION - A</u>				
Attempt all questions. All questions are compulsory. $1 \times 5 = 5$ Marks				
Questions	СО	Bloom's Level		
 Q. 1: (A). Given a scenario where the market price of an asset decreases, what happens to the value of a short position in a futures contract on that asset? Q. 1: (B). How would you calculate the profit or loss for a call option buyer when the option is exercised? Q. 1: (C). How buying a Call option is different from writing a Put option? Q. 1: (D). How does Open Interest data define the direction of the market? Q.1: (E). How can a business use a forward contract to manage currency exchange risk? 	CO-1	L-3		
SECTION – B				
All questions are compulsory (Each question have an internal choice. Attempt any one (either A or B) from the internal choice) $7 \times 3 = 21$ Marks				
Questions	CO	Bloom's Level		
Q. 2: (A). On January 1, the spot price of a commodity is \$80 and the June futures	CO-2			
price is \$83. On May 1, the spot price is \$95 and the June futures price is \$97. A company entered into a futures contract on January 1 to hedge the sale of the commodity on May 1. The company closes out its position on May 1. What is the effective price received by the company for the commodity?	0-2	L-3		
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Q. 4: (A). Assume you're an options trader and you decide to initiate a short strangle strategy, anticipating a sideways move in the stock price of TCS. You buy one out-of-the-money call option and one out-of-the-money put option on TCS stock.	rt CO-3	L-3
Details of the options:		
Current stock price of TCS : Rs 4130		
Call option strike price: Rs 4200		
Premium paid for call: Rs 29		
Put option strike price: RS 4000		
Premium paid for put: Rs 10.20		
Calculate:		
a) The total premium received for the strangle.b) The break-even points for the strategy.c) The profit or loss if TCS stock ends up at 4300 at expiration.		
d) The profit or loss if TCS stock ends up at 4100 at expiration.		
Or		
Q. 4: (B). Examine the fundamental distinctions between the Strangle and		
Straddle strategies in options trading. What are the implications of choosin	g	
one over the other in terms of market volatility and strike prices?	CO-3	L-4
<u>SECTION – C</u>		
Read the case and answer the questions	$7 \times 02 = 14$ N	Aarks

7×02 = 14 Marks

Questions			CO	Bloom's Level
Q. 5: Case Study:			CO-4	L-6
Tata Steel and NT	PC have been offered the f	following rates per annum on	a	
Rs 1000 Cr. loan f		one and rates per annum on	-	
	Fixed Rate (%)	Floating Rate (%)		
Tata Steel	11.5	MIBOR+1.5		
NTPC	14	MIBOR+3.0		
Questions Q 5: (A): Design a	s a floating rate loan; NTPC swap that will net a bank, a ll appear equally attractive t	cting as intermediary, 0.2% pe	r	
Q 5: (B): Create no	et cash flow statement for co	ompanies.		

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