

ADMISSION NUMBER											

School of Business
Bachelor of Business Administration
Semester End Examination - Nov 2023

Duration : 180 Minutes
Max Marks : 100

Sem V - D1UA504T - Financial Derivatives

General Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

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| 1) | How does derivative help in arbitrage process? | K1 (2) |
| 2) | Interpret the concept of maximum loss for a call option buyer? | K2 (4) |
| 3) | Compare forward market with the spot market? | K2 (6) |
| 4) | "Trading a financial instrument involving high risk, in expectation of Higher returns". With reference to the given statement apply the stated concept in financial market. | K3 (9) |
| 5) | A stock is currently trading at Rs. 80 per share. You have a European call option with a strike price of Rs. 85, and the option will expire in 4 months. The risk-free interest rate is 4%, and the volatility of the stock is 20%. Solve for the theoretical value of the call option using the Black-Scholes Model. | K3 (9) |
| 6) | Conclude the significance of Eurodollar futures in interest rate hedging and speculation? How do market participants, such as banks, corporations, and traders, use Eurodollar futures to manage interest rate risk? | K5 (10) |
| 7) | Examine the concept of a Long Position Hedge using options. How does it work, and what is the objective of implementing a Long Position Hedge? Provide an example of how a Long Position Hedge can be used to manage risk in a financial portfolio. | K4 (12) |
| 8) | There is a forward contract on Company XYZ's stock. The current stock price is Rs 55 per share, and the forward contract has a delivery date in three months. The agreed-upon forward price is Rs.60 per share. Estimate the forward contract's payoff to the long (buying) party if the stock price at the delivery date is Rs. 65 per share? | K5 (15) |
| 9) | Determine the limitations and challenges of using Delta as a sole risk management tool for options traders. What are the other Greeks and risk management techniques that traders should consider to build robust strategies? | K5 (15) |
| 10) | A forward contract on Crude Oil has a delivery date in six months. The current spot price of Crude Oil is Rs.70 per barrel. The risk-free interest rate is 3% per annum. The cost of storing Crude Oil for six months is Rs.5 per barrel. Estimate the fair value of the forward contract? | K6 (18) |