



SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY
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QUESTION BANK (DESCRIPTIVE)

Subject with Code: FINANCIAL DERIVATIVES

Course & Branch: MBA

Year & Sem: II-MBA & II-Sem

Regulation: R19

UNIT – I
INTRODUCTION TO DERIVATIVES

1	Explain the growth and development of derivatives. Elaborate types of derivatives.	[L2][CO1]	[10M]
2	The role of derivatives market in India. Explain.	[L2][CO1]	[10M]
3	Explain the different types of financial derivative along with their features in brief.	[L2][CO1]	[10M]
4	Elucidate the merits and demerits of financial derivatives.	[L1][CO1]	[10M]
5	Write a note on evaluation of derivative markets in India.	[L2][CO1]	[10M]
6	Narrate in brief on the fundamental linkages between spot and derivative markets.	[L3][CO1]	[10M]
7	Explain the risk involved in financial derivatives?	[L2][CO1]	[10M]
8	What do you mean by cash market? Discuss the objectives and derivative market?	[L1][CO1]	[10M]
9	Explain the uses and misuses of financial derivatives.	[L2][CO1]	[10M]
10	Bring out the historical development of financial derivatives.	[L2][CO1]	[10M]

UNIT – II

Future and Forward market

1	Explain the structure of forward and future market.	[L2][CO2]	[10M]
2	The spot price of wheat is Rs 330 per ton a person has sold a forward contract on wheat expiring in 5 months and the contract is for 300 tons of wheat the price of the forward contract is Rs 315. Assuming the risk free rate to 4% compute the value of the forward contract.	[L5][CO2]	[10M]
3	Elucidate Future market –mechanics of future markets	[L2][CO2]	[10M]
4	Critically examine the expectation approach of futures price determination with examples.	[L4][CO2]	[10M]
5	“Hedging is the basic function of futures market”. Discuss the statement in the light of uses of futures contract.	[L3][CO2]	[10M]
6	Explain the relationship between forward and futures prices with examples.	[L2][CO3]	[10M]
7	Write a short note : i) Currency futures ii) Interest rate futures	[L2][CO2]	[10M]
8	Define margin requirements for futures? Discuss the types of margin requirements?	[L3][CO3]	[10M]
9	Explain the relationship between forward and futures prices with examples.	[L2][CO2]	[10M]
10	A stock index currently stands at 350. The risk free rate is 8% per annum and dividend yield on index is 4% per annum. What should be the futures price for a four month contract ?	[L5][CO2]	[10M]

UNIT –III**Options**

1	Differentiate between call and put options. What are the rights and obligations of the holders of long and short positions in them?	[L2][CO3]	[10M]
2	Explain the distinction between options and futures contracts with suitable examples.	[L1][CO3]	[10M]
3	If the spot price of a stock is Rs 60/- and strike price is Rs 68/-. Risk free rate of interest is 10% pa and standard deviation of stock is 40%. Expiration date is 3 months and option type is European option. Calculate the value of call option as per Black-Scholes model.	[L5][CO3]	[10M]
4	Explain the principles of option pricing.	[L2][CO3]	[10M]
5	What are the various assumptions of binomial pricing model? Also discuss one step binomial pricing model with hypothetical examples.	[L3][CO3]	[10M]
6	Explain the terminologies used in option market? Describe the participants in the option market?	[L2][CO2]	[10M]
7	Describe the strategies for hedging with options?	[L3][CO2]	[10M]
8	S=100, Standard deviation =25%, r=10%,K=50,t=1 year. Calculate value of call option as per Binomial option pricing model.	[L5][CO3]	[10M]
9	What is the meaning of option? Discuss the types of option?	[L2][CO3]	[10M]
10	If the spot price of a stock is Rs 50/- and strike price is Rs 58/-. Risk free rate of interest is 8% pa and standard deviation of stock is 20%. Expiration date is 4 months and option type is European option. Calculate the value of call option as per Black-Scholes model.	[L5][CO3]	[10M]

UNIT –IV**Basic option strategies**

1	Describe the trading strategies followed in option market.	[L2][CO4]	[10M]
2	What do you understand by the term spread in option trading? Discuss the types of spreads with suitable diagrams.	[L3][CO4]	[10M]
3	What are the advantages of option trading?	[L2][CO4]	[10M]
4	Elucidate the advanced option strategies with examples?	[L3][CO3]	[10M]
5	Describe the strategies for hedging with options? Explain the concept of straddle and strangle	[L2][CO4]	[10M]
6	Discuss the basic of option strategies?	[L3][CO4]	[10M]
7	What do you understand by the term spread in option trading? Discuss the types of spreads with suitable diagrams.	[L2][CO4]	[10M]
8	Pricing of currency is not different from other financial options". Comment on the statement with suitable examples.	[L2][CO4]	[10M]
9	What is currency option market? What are its features? Explain with an example.	[L3][CO4]	[10M]
10	Define spreads? What are the types of spreads?	[L2][CO4]	[10M]

UNIT –V**Swaps**

1	What is swap? Explain the nature of swaps.	[L2][CO4]	[10M]
2	How do you relate interest rate swaps with currency swaps and how do you price them?	[L3][CO5]	[10M]
3	Explain financial swap. Discuss the features of a swap contract with example.	[L4][CO4]	[10M]
4	Write an essay on Indian swap market.	[L3][CO5]	[10M]
5	“Plain Vanilla swap is simplest form of interest rate swap contract available in interest rates swaps market”. Discuss with suitable examples along with its structure and mechanism.	[L4][CO3]	[10M]
6	What do you mean by equity swap? Explain its types and applications?	[L3][CO4]	[10M]
7	Explain the concept and nature of swaps.	[L2][CO5]	[10M]
8	What is a financial swap? Discuss the features of a swap contract with example.	[L2][CO4]	[10M]
9	Describe the process of pricing and valuing swaps.	[L3][CO4]	[10M]
10	What is currency swap? Explain its features and also show the three step flow of currency swaps with examples.	[L2][CO4]	[10M]

Case study 1:

1.If the spot price of a stock is Rs 40/- and strike price is Rs 49/-. Risk free rate of interest is 7% pa and standard deviation of stock is 30%. Expiration date is 4 months and option type is European option. Calculate the value of call option as per Black-Scholes model.

Case study 2:

2.S=90, Standard deviation =25%, r=10%,K=80,t=1 year. Calculate value of call option as per Binomial option pricing model.

Case study 3:

3.The spot price of wheat is Rs 430 per ton a person has sold a forward contract on wheat expiring in 5 months and the contract is for 400 tons of wheat the price of the forward contract is Rs 415. Assuming the risk free rate to 5% compute the value of the forward contract.

Case study 4:

4.A stock index currently stands at 450. The risk free rate is 10% per annum and dividend yield on index is 5% per annum. What should be the futures price for a four month contract ?

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