Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, December 2018

SECTION A

Course: Risk Management Programme: MBA PM/UISC Time: 03 hrs. Instructions:

Semester: III Course Code:PIUI 8009 Max. Marks: 100

CO

CO1

CO2

CO3

CO3

CO1

CO1

CO1

CO2

CO1

CO4

Attempt all questions S. No. Marks What is the difference between Uncertainty and Risk? Q1 2 What is risk register? Q2 2 Q3 The forward rate for any two currencies is generally a function of their spot rate and: 2 (a) Trade Difference (b) Difference in the exchange rate (c) Int. rate differential between them (d) Both B and C Q4 Explain the concept of balance of payment. 2 Q5 What is the difference between standalone risk and portfolio risk? 2 Q6 What is Put-Call Parity? 2 What are the determinants of currency option premium Q7 2 Arbitrage is a strategy of taking advantage of _____ between two markets. Q8 (a) Price differential (b) theoretical prices 2 (c) Interest rate differential (d) timing Q9 Distinguish between exposure and risk. 2 Q10 Futures contracts are attractive for market participants as compared to OTC contracts because futures contracts have _____. 2 (a) a settlement guarantee mechanism. (b) a greater money making potential (c) zero risk (d) minimum volatility

SECTION B

S.No.	Attempt a	any four questions			
Q 1	Explain 1	Explain hedging of fixed rate and floating rate loans using swap.			CO2
Q2	The following table, gives the rate of return on stock of Apple Computers and on the market portfolio for five years				
	Year	Return on the stock Apple Computers (%)	Return Market Portfolio (%)		
	1	-13	-3		
	2	5	2	5	CO3
	3	15	8		
	4	27	12		
	5	10	7		
	What is the market risk (beta) of the stock of Apple Computers?				
Q3.	What are the various kinds of business risks? Distinguish between systematic risk and unsystematic risk			5	CO2
Q4.	If the price of the British Pound is USD 1.92, the annual interest rate is 4% in the US and 6% in the UK. What should be the price of a 90-day futures contract?			5	CO4
Q5.	Explain how currency forwards can be used to hedge the risk in foreign exchange deals			5	CO4
	<u> </u>	SEC	CTION-C		
S.No.	Attempt a	any three questions			
Q1	What is Enterprise Risk management? Discuss the process of Enterprise risk management.			10	CO1
Q2	A 2-month call option on an asset with strike price of Rs 2,100 is selling for Rs 140 when the share is trading at Rs 2,200. Find out the following:				
	Rs 140 w. i) ii)	10	CO4		

Q3.	call? iv) At w event v) If the holde vi) What the a of th Explain how co exchange deals	hat price of the asset the c e price of the asset become er exercise the call option? t is the profit/loss of the h sset is Rs 2,000, Rs 2,250 a e option? urrency forwards can be us	older and writher if the price of and Rs 2,500 on the date of expiry sed to hedge the risk in foreign	10	СО3
Q4.	Why can not the difference of two call prices exceed the difference of their strike prices? If so, how would you benefit? Explain with the help of an example				CO2
		SECT	'ION-D		
S.No.	Attempt any two questions				
Q1.	 . Given the following information about an asset: Current Market Price: Rs 50, Annual Volatility: 30%, Risk Free Interest Rate for 3months: 10% Find out the value of 3-month call option with strike prices of (a) Rs 40; (b) Rs 50 and (c) Rs 60. What are the intrinsic and time value of the calls? 				CO3
Q2.	crore each. The Firm X Firm Y Another bank a arrangement for interest rate wo	ey have been offered follow Fixed rate Market 12% 11% acting as swap intermediar or a fee a 5 bps from each to build fall and hence, wants to	ating to raise finance of Rs 100wing loans by a bankFloating rate MarketMIBOR +70 bpsMIBOR+30 bpsy is willing to work out a swapfirm Firm X believes thatto raise funds in the floating ratefunds on fixed interest rate basis.	15	CO2

	What swap can be arranged between two parties? What would be the saving in financing cost of each firm?		
Q3.	 i) What is the minimum and maximum bound on the value of the call option? Explain. ii) Why can not the difference of two call prices exceed the difference of their strike prices? If so, how would you benefit? Explain with the help of an example iii) What is put call parity? Provide the relationship for call and put prices for European options. 	15	CO4