

Roll	No	
$\mathbf{I}_{\mathbf{U}}$	TNO.	

Semester IV

University of Petroleum & Energy Studies

End-Semester Examination – May, 2019
Programme Name: MBA-Business Analytics
Semester Examination – May, 2019

Subject: EnterpriseRisk Managem Subject code: FINC 8005	ent		M. Marks: 100 Duration: 3 Hrs
Note: All Sections are compulsory	0	(20 M1 -)	(10×2)M - 1 -
Q1. Risks associated with counter-party		(20 Marks)	(10×2)Marks (CO1)
a) Settlement Risks	b) Marke		(CO1)
a) Settlement Risksc) Credit Risks	d) Opera	tional Risks	
Q2. Arbitragers take advantage ofi			(CO3)
(a) Hedgers (b) Volatility (c) Mispricing ((003)
Q3. The forward rate for any two curren	· / I	y a function of their s	pot rate and: (CO3)
•	0	the exchange rate	(= = =)
(c) Int. rate differential between them (d	,	_	
Q4. Which of the following is not a deriv	,		(CO2)
(a) An investor buying index futu			` '
(b) A copper fabricator entering		e e e e e e e e e e e e e e e e e e e	*
(c) A farmer selling his crop at a		·	1
(d) An exporter selling dollars in		et	
Q5. There are many in the financial	ial and busines	s environment today.	(CO4)
(a) Risks (b) mergers and acquisition	ons (c) legal :	ssues (d) consolidatio	ns
Q6. The bull spread can be created by or	nly buying and	selling	(CO3)
(a) basket option (b) futures (c		d) options	
Q7. When the strike price is lower than t	the spot price of	of the underlying, a cal	
(a) At the money (b			(CO2)
(c) Out of the money (d			
Q8. A buying hedge in the options mark		· •	(CO1)
a) Purchasing a call opti) Buying a put option	
c) Selling a call option d) None of			
Q9. Price that is agreed upon at the date	of the contrac		
called	. D. '	(C	CO4)
(a) Spot Price (b) Discor			
(c) Cash market price (d) Future		1 '	(602)
Q10.Risk of an individual asset refers to	variability of it	s returns around its in True or I	, ,
	Sectio		(5×4)Marks
Each question is of 5 marks. Atte		<u> </u>	(5.1)1141115
Q1. Suppose a 6-m forward contract on		Limited is available T	he current market price of ITC is
Rs 180. If the risk free interest is s 6% pe			-
(CO1)	or announ what	onoura se ine price o	The omoral forward contract.
Q2. Distinguish between the intrinsic val	lue and time va	lue of an option?	(CO4)
Q3. Discuss the different types of busine		r	(CO3)
Q4. Three put options X,Y and Z with s		Rs 100, Rs 105,and Rs	,
Rs 13 respectively. Current market price	-		_
options? What would be the moneyness		_	•
(CO2)	1	1 1	•
Q5. Define Risk. Explain systematic and	unsystematic i	risk	(CO1)
	Section -	C	(10×3) Marks

Each question is of 10 marks. Attempt any three

Q1. What are future contracts? How these are different from forward contracts?

(CO3)

Q2. The returns and associated probabilities of Modern Foods ltd are given below:

ne returns and associated probabilities of Modern Foods ltd are given below: (CO1)								
	Return %	12	15	18	20	24	26	30
	Probability	0.05	0.10	0.24	0.26	0.18	0.12	0.05

Calculate the expected return and standard deviation.

Q3. What is Enterprise Risk management? Discuss the process of Enterprise risk management

(CO4)

Q4. Given the following information about an asset:

(CO2)

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?

Section - D

(30×1 Marks)

Each question is of 30 marks. Attempt any one

(CO3)

- Q1. 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:
 - What is the intrinsic worth of the call option? i)
 - ii) Why should one buy the call for a price in excess of intrinsic worth?
 - Under what circumstances the option holder would exercise his call? iii)
 - At what price of the asset the call option holder would break even? iv)
 - If the price of the asset becomes Rs 2,150, should the option holder exercise the call option? v)
 - What is the profit/loss of the holder and writher if the price of the asset is Rs 2,000, Rs 2,250 and Rs vi) 2,500 on the date of expiry of the option?
- Q2. What is foreign exchange market? Who are the participants of foreign exchange market?

(CO1)



Roll No.	
IXOH INO.	

Semester IV

(10×3) Marks

University of Petroleum & Energy Studies

End-Semester Examination – May, 2019 Programme Name: MBA-Business Analytics

Subject: EnterpriseRisk Managem Subject code: FINC 8005	nent	M. Marks: 100 Duration: 3 Hrs
Note: All Sections are compulsory		
Q1. CAPM accounts for	Section – A (20 Marks)	(10×2)Marks (CO4)
a) Systematic risk	b) Unsystematic risk	,
c)Price risk	d) None	
Q2. Risk in capital budgeting implies that a) Variability		of the cash flows (CO2)
c)Certainty	d) None of the above	
Q3. Which of the following is true?		(CO1)
a) Higher the Beta, lowc) Risk is constant	er the risk b) Higher the Beta, d) Beta is constant	higher the risk
Q4. Which of the following is not a deri	vative transaction?	(CO2)
(a) An investor buying index fut	ares in the hope that the index will	l go up.
	into futures contracts to buy his a	nnual requirements of copper.
(c) A farmer selling his crop at a		
(d) An exporter selling dollars in		(60.1)
Q5. There are many in the finance		
	ons (c) legal issues (d) consolida	
Q6. The bull spread can be created by o		(CO3)
(a) basket option (b) futures (c	, , , ,	(CO1)
Q7. A buying hedge in the options mark		(CO1)
	ion b) Buying a put opti	1011
c) Selling a call option d) None Q8. Price that is agreed upon at the date		f an asset at a specific futures date is
called	of the contract for the delivery of	(CO4)
(a) Spot Price (b) Disco	unt Price	(004)
(c) Cash market price (d) Futur		
Q9. Risks associated with counter-party		(CO1)
a) Settlement Risks	b) Market Risks	(332)
d) Credit Risks	d) Operational Risks	
Q10. Risks associated with counter-part	, ±	(CO1)
a) Settlement Risks	b) Market Risks	,
e) Credit Risks	d) Operational Risks	
Section -	, ±	ırks
Each question is of 5 marks. Attempt an	` '	
Q1. Define Risk. Explain systematic and	unsystematic risk	(CO1)
Q2. Distinguish between the intrinsic va	lue and time value of an option?	(CO4)
Q3. Discuss the different types of busin-	ess risks	(CO3)
Q4. Three put options X,Y and Z with s	strike prices of Rs 100, Rs 105, and	Rs 110 are selling at Rs 8, Rs 12 and
Rs 15 respectively. Current market price	of the underlying asset is Rs 105.	What is the moneyness of each of the
options? What would be the moneyness	of each option if each put price in	ncreases by Rs 8?. (CO2)
Q5.Suppose a 6-m forward contract on Rs 280. If the risk free interest is s 8% p		<u> </u>
R5 200. If the fisk free filterest is \$ 670 p	er amium what should be the pho	(CO3)

Section – C

Each question is of 10 marks. Attempt any three

Q1. What is Enterprise Risk management? Discuss the process of Enterprise risk management (

Q2. The returns and associated probabilities of Modern Foods ltd are given below:

(CO4)

ile returns and associated			100abinues 0	i iviouciii i (ous itu aic g	Siveri below.	(001)	
	Return %	13	16	19	20	23	27	30
	Probability	0.06	0.10	0.23	0.25	0.19	0.11	0.06

Calculate the expected return and standard deviation.

Q3. What are future contracts? How these are different from forward contracts?

(CO3)

Q4. Given the following information about an asset:

(CO2)

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 Rs 40 What are the intrinsic and time value of the calls?

Section – D

(30×1 Marks)

Each question is of 30 marks. Attempt any one

(CO3)

- Q1. 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:
 - i) What is the intrinsic worth of the call option?
 - ii) Why should one buy the call for a price in excess of intrinsic worth?
 - iii) Under what circumstances the option holder would exercise his call?
 - iv) At what price of the asset the call option holder would break even?
 - v) If the price of the asset becomes Rs 2,150, should the option holder exercise the call option?
 - vi) What is the profit/loss of the holder and writher if the price of the asset is Rs 2,000, Rs 2,250 and Rs 2,500 on the date of expiry of the option?

Q2. What is foreign exchange market? Who are the participants of foreign exchange market?

(CO1)