Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, Dec 2023

Course: BA-ECO
Program: Financial Economics
Course Code: ECON3025P
Semester: V
Time: 03 hrs.
Max. Marks: 100

Instructions:

SECTION A 10Qx2M=20Marks

S. No.		Marks	CO
Q 1	MCQ		
I.	Which of the following is a measure of the sensitivity of a stock's return to the market return?	2	CO1
	a) Alpha		
	b). Beta		
	c) R-squared		
	d) Standard deviation		
II.	Which of the following is an example of systematic risk?	2	CO1
	a) A company's CEO resigns		
	b). A natural disaster occurs		
	c) A company announces a new product		
	d) A company's earnings report beats expectations		
III.	Which of the following is an example of unsystematic risk?	2	CO1
	a) Interest rate changes		
	b) Exchange rate fluctuations		
	c). A company's CEO resigns		

d) A terrorist attack occurs		
The Capital Asset Pricing Model (CAPM) is used to:	2	CO1
a) Calculate a stock's intrinsic value		
b) Measure a stock's risk		
c). Estimate a stock's expected return		
d) All of the above		
The term "diversification" refers to:	2	CO1
a) Investing in multiple stocks in the same industry		
b) Investing in stocks and bonds		
c.) Spreading investments across different asset classes and sectors		
d) Investing in high-risk, high-reward stocks		
The time value of money refers to:	2	CO1
a) The fact that money can earn interest over time		
b) The fact that the value of money changes over time due to inflation		
c) The fact that the present value of money is greater than its future value		
d). The fact that the future value of money is greater than its present value		
An investor who wants to invest in a portfolio of stocks that replicates the	2	CO1
performance of a market index would choose:		
a) An actively managed mutual fund		
b). A passively managed mutual fund or an exchange-traded fund (ETF)		
c) A hedge fund		
d) A private equity fund		
	The Capital Asset Pricing Model (CAPM) is used to: a) Calculate a stock's intrinsic value b) Measure a stock's risk c). Estimate a stock's expected return d) All of the above The term "diversification" refers to: a) Investing in multiple stocks in the same industry b) Investing in stocks and bonds c.) Spreading investments across different asset classes and sectors d) Investing in high-risk, high-reward stocks The time value of money refers to: a) The fact that money can earn interest over time b) The fact that the value of money changes over time due to inflation c) The fact that the present value of money is greater than its future value d).The fact that the future value of money is greater than its present value An investor who wants to invest in a portfolio of stocks that replicates the performance of a market index would choose: a) An actively managed mutual fund b). A passively managed mutual fund or an exchange-traded fund (ETF) c) A hedge fund	The Capital Asset Pricing Model (CAPM) is used to: a) Calculate a stock's intrinsic value b) Measure a stock's expected return d) All of the above The term "diversification" refers to: a) Investing in multiple stocks in the same industry b) Investing in stocks and bonds c.) Spreading investments across different asset classes and sectors d) Investing in high-risk, high-reward stocks The time value of money refers to: a) The fact that money can earn interest over time b) The fact that the value of money changes over time due to inflation c) The fact that the present value of money is greater than its future value d).The fact that the future value of money is greater than its present value An investor who wants to invest in a portfolio of stocks that replicates the performance of a market index would choose: a) An actively managed mutual fund b). A passively managed mutual fund or an exchange-traded fund (ETF) c) A hedge fund

VIII.	The term "leverage" refers to:	2	CO1
	a). The use of borrowed funds to increase potential returns		
	b) The degree of risk associated with an investment		
	c) The potential return on an investment		
	d) The market value of an asset		
IX.	The term "beta" measures:	2	CO1
	a) The potential return on an investment		
	b) The degree of risk associated with an investment		
	c) The sensitivity of a stock's return to the market return		
	d). The sensitivity of a bond's price to changes in interest rates		
X.	Which of the following best describes the time value of money?	2	CO1
	a.) The idea that money is worth more today than it will be in the future		
	b) The idea that money is worth more in the future than it is today		
	c) The idea that money has no value over time		
	d) The idea that money is worth the same amount regardless of when it is received		
	SECTION B		
	4Qx5M= 20 Marks		
Q2	Mr. Nadeem owes a total of \$3,060 which includes 12% interest for the three years he borrowed the money. How much did he originally borrow?		CO2
Q3	Explain the concept of systematic risk. What are the different types of systematic risk	2+3	CO2
Q4	What is beta? How is it interpreted?	2+3	CO2

Q5	write notes on:			2.5+2.5	CO2
	a) interest rate risk; and				
	b) market risk				
	b) market risk				
	Si	ECTION-C			
		0M=30 Mar			
Q6	From the following information you are i	required to ca	lculate the risk.		
	Possible return	Probability			
	30	0.10			
	40	0.30	1	10	CO3
	50	0.40	1		003
	60	0.10			
	70	0.10	-		
		1	_		
Q7	With the following information, you are re	equired to cal	culate the Beta of a stock		
	using regression model:			10	CO3
	$\Sigma XY = 2160.49$; $\Sigma X = 49.82$; $\Sigma Y = 111.69$; $\Sigma X2 = 1432.75$; $n = 12$				COS
	Where, Y is the stock return and X is the market return.				
Q8	Initial investment is Rs 25,000				
	Net Cash Flow at the end of:				
	1^{st} year = Rs 12,000; 2^{nd} year = Rs. 3,000; 3^{rd} year = Rs. 8,000; 4^{th} year = 8,000.				
	Cost of Capital/Discount Rate is 10%.			10	CO3
	The present Value of Re 1 at 10% cost of capital from 1 st year to 4 th year are 0.909,				
	0.826, 0.751, and 0.683.				
	Calculate Net-Present Value and comment or	n the same.			
		ECTION-D			
	2Qx1	5M= 30 Mar	ks		

Q9	 a) ABC Co Ltd. Issues 1000, 10% debenture of Rs 100 each at a discount of 2% redeemable debenture after 10 years. If the marginal tax rate is 50%, find out the after-tax cost of debenture. b) Suppose a share is currently selling at ₹120. An investor who is interested in the share anticipates that the company will pay a dividend of Rs 5 in the next year. Moreover, he expects to sell the share at ₹175 after one year. Calculate the expected return from the investment. 		CO4
Q10	Explain the concept of diversification with suitable example.	15	CO4