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Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2023

Course: BA-ECO Semester: VI Program: Financial Economics Time: 03 hrs.

Course Code: ECON 3017 Max. Marks: 100

Instructions:

SECTION A 10Qx2M=20Marks

S. No.		Marks	CO
Q 1	MCQ		
I.	Which of the following factors affect the time value of money?	2	CO1
	a) Inflation		
	b) Interest rates		
	c). Both a) and b)		
	d) None of the above		
II.	Which of the following is an example of diversification in portfolio	2	CO1
	management?		
	a) Investing all funds in a single stock		
	b) Investing all funds in a single sector		
	c). Investing funds in multiple stocks across different sectors		
	d) Investing funds in multiple stocks within the same sector		
III.	Which of the following is not a factor that should be considered when	2	CO1
	constructing a portfolio?		
	a) Investment horizon		
	b) Risk tolerance		

	c). Market trends		
	d) Financial goals		
IV.	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		
V.	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		
VI.	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		
VII.	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		
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.	Which of the following is not a capital budgeting technique?	2	CO1
	a) Payback period		
	b) Internal rate of return (IRR)		
	c) Net present value (NPV)		
	d). Market capitalization		
X.	What is the payback period in capital budgeting?	2	CO1
	a). The time it takes to earn back the initial investment		
	b) The time it takes for the project to break even		
	c) The time it takes to achieve a specified rate of return		
	d) The time it takes for the project to reach its maximum value		
	SECTION B		
	4Qx5M=20 Marks		
Q2	Mr. Nadeem owes a total of \$4,060 which includes 12% interest for the three	5	CO2
	years he borrowed the money. How much did he originally borrow?	3	CO2
Q3	Explain the concept of unsystematic risk. What are the different types of	2+3	CO2
	unsystematic risk		
Q4	What is beta? How it is interpreted?	2+3	CO2

Q5	write notes on:			2.5+2.5	CO2
	a) purchasing power risk; and				
	b) market risk				
	CI	ECTION-C			
		LOM=30 Marl	ke		
Q6	From the following information you are				
Q o	Possible return	Probability Probability			
	40	0.10			
	50	0.30	_		CO3
	60	0.40		10	
	70	0.10			
	80	0.10			
			J		
Q7	With the following information, you are r	required to cal	culate the Beta of a stock		
	using regression model:			10	CO3
	$\Sigma XY = 2160.49$; $\Sigma X = 49.82$; $\Sigma Y = 111.69$; $\Sigma X2 = 1432.75$; $n = 12$			10	COS
	Where, Y is the stock return and X is the market return.				
Q8	Initial investment is Rs 20,000				
	Net Cash Flow at the end of:				
	1 st year = Rs 15,000; 2 nd year = Rs. 3,500; 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 on the same.				
		ECTION-D			
	2Qx1	5M= 30 Mar	ks		

	Security	beta	Random error term	Proportion			
			standard deviation (percent)				
	1	1.35	5	0.10			
	2	1.05	9	0.20		15	CO3
	3	0.80	4	0.15		15	COS
	4	1.50	12	0.30			
	5	1.12	8	0.25			
	portfolio?						
Q10	1	ies 100	0, 10% debenture of Rs 100 each	h at a nremium	of		
			after 10 years. If the marginal tax	•			
	out the after-tax cost of debenture.				10		
	b) Commence of the control of the co					+	CO4
	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					10	CO4
	in the chara anticina	tac that	next year. Moreover, he expects to sell the share at ₹175 after one year.				
	1					=15	