22MBAFM304

Third Semester MBA Degree Examination, June/July 2024

Security Analysis and Portfolio Management

Max. Marks: 100

Note: 1. Answer any FOUR full questions from Q.No.1 to Q.No.7.

2. Question No. 8 is compulsory.

Time: 3 hrs.

3. M: Marks, L: Bloom's level, C: Course outcomes.

4. Time Value Table is permitted.

			M	L	C
Q.1	a.	"Investment is different from speculation". Justify.	3	L4	CO1
	b.	Define Risk. Explain the various types of Risk.	7	L2	CO2
	c.	"Investment is a systematically planned employment of funds". On the light of this statement, explain the process of investment.	10	L4	CO1
Q.2	a.	What are derivative? Briefly explain.	3	L2	CO1
	b.	"Stocks are risky, but bonds are not". Explain.	7	L4	CO2
	c.	What do you understand from portfolio management strategies? Explain.	10	L2	CO1
Q.3	a.	What do you mean by Bond Duration? Briefly explain.	3	L2	CO2
	b.	Calculate the expected return and the standard deviation of returns for a stock having the following probability distribution of returns. Possible returns (%) -25 -10 0 15 20 30 35 Probability 0.05 0.10 0.10 0.15 0.25 0.20 0.15	7	L5	CO2
	c.	A stock casting Rs. 120 pays no dividend. The possible prices that the stock might sell for at the end of the year with the respective probabilities as follows: Price (Rs.) Probability 115 0.1 120 0.1 125 0.2 130 0.3 135 0.2 140 0.1 i) Calculate the expected Return ii) Calculate the standard deviation of the return	10	L5	CO2
Q.4	a.	What are Mutual Funds? Briefly explain.	3	L2	CO4
	b.	A person owns a Rs. 1000 face value bond with 5 years to maturity. The bond makes annual interest payments of Rs. 80. The bond is currently priced at Rs. 960. Given that the Market interest rate is 10%, should the investor hold or sell the bond?	7	L4	CO2

	c.	A portfolio is constituted with four securities having the following characteristics.	10	L4	CO2
		Security Return (%) Weight age			
		P 17.5 0.15			
		Q 24.8 0.25			
		R 15.7 0.45			
		S 21.3 0.15			
r		Calculate the expected return of the portfolio. Would the return increase if			
		the investment each security if going to be equal?			
Q.5	a.	What is the significance of P/E Ratio in security analysis? Briefly explain.	3	L4	CO3
				T.4	COL
	b.	A company paid dividends amounting to Rs. 0.75 per share during the next	7	L4	CO3
		year investors forecast a dividend of Rs. 3 per share in the year after that.			
		There after, it is expected that dividends will grow at 10% per year into an			
		indefinite future. Would you buy/sell the share if the current price of the			
		share is Rs. 54? Investors required rate of return is 15%.	-1-		r
	c.	Jaya Ltd., has a 14% debenture with a face value of Rs. 100 that matures at	10	L5	CO3
	۲.	par in 15 years. The debenture is callable in 5 years at Rs. 114. It currently			
		sells for Rs. 105. Calculate each of the following for this debenture.			
		i) Current yield			
		ii) Yield to call			
		iii) Yield to maturity			
			3	L4	CO3
Q.6	a.	How RSI is helpful in stock analysis? Briefly explain.	3	1.4	COS
	b.	What do you understand from Industry analysis? On the light of this	7	L2	CO3
	υ.	explain industry life cycle.			
		A. O. O.	10	T. C.	CO2
	c.	Calculate 14 days RSI from the following data:	10	L5	CO3
		Days Closing Price			
		1 130			
		2 132			
		3 130 4 135			
		4 135 5 137			
		6 134			
		7 136			
		8 140			
		9 140			
		10 142			
		11 139			
		12 141			
		13 145 - VARARY			
		14 143 CMRIT LIBRAGE			
		15 145			
					65
Q.7	a.	What do understand from an efficient market? Briefly explain the '3' forms	3	L2	CO3
		of market efficiency.			

•	b.	Assume you are a portfolio manager based on the following details;	7	L4	CO3
	D.	determine the securities that are overpriced and those that are underpriced			
•		in terms of SML.			
		Security Actual Return β σ			
		A 0.33 1.7 0.50			
		B 0.13 1.4 0.35			
		C 0.26 1.1 0.40			
		D 0.12 0.95 0.24			
		E 0.21 1.05 0.28			
		F 0.14 0.70 0.18			
		Nifty 0.13 1.00 0.20			
		T-Bills 0.09 0 0			
	c.	The following information is provided regarding the performance of	10	L4	CO4
		Fund 1. Fund 2 and Fund 3 for a 6 month period. The risk for rate of			
		interest is assumed to be 9% Rank the portfolio based on Sharpe and			
		Treynors index			
		Funds $RP(\%)$ σ_P β			
		Fund 1 25.38 4 0.23			
		Fund 2 25.11 9.01 0.56			
		Fund 3 25.01 3.55 0.59			
Q.8		Compulsory:	20	L5	CO2
Q.0					
		Stock 'L' and 'M' have yielded the following returns for the past two			
		years.			4
		Years Returns (%) M			
		2011 12 14			1000
		2012 18 12			
		CI CASCOOK of CI and			
		a) What is the expected return on a portfolio made-up of 60% of 'L' and			
		40% of 'M'? b) Find out standard Deviation of each stock?	- 4	100	
		b) Find out standard Deviation of each stock? c) What is the covariance and co-efficient of correlation between stock			
		'L' and 'M'?			
		d) What is the portfolio risk of a portfolio made-up of 60% of L and 40%			
		d) What is the portfolio risk of a portfolio made-up of 60% of L and 40% of 'M'?			