CBCS SCHEME

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USN	

22MBAFM304

Third Semester MBA Degree Examination, Dec.2023/Jan.2024
Security Analysis & 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.

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

4. Use of Time Value table is permitted.

	-		M	L	C
Q.1	a.	Explain S & P BSE sensex.	3	L2	CO1
	b.	The returns on securities A and B are given below: Probability Security A Security B	7	L3	CO2
		$\begin{array}{ c c c c c c }\hline 0.5 & 4 & 0 \\\hline 0.4 & 2 & 3 \\\hline 0.1 & 0 & 3 \\\hline \end{array}$			2
	Select the security of your preference. The security has to be selected on the basis of return and risk.				8
	c.	Explain in detail the investment process.	10	L5	CO1
Q.2	a.	A Ltd would pay Rs.2.50 as divided per share for the next year and	3	L1	CO2
	expected to grow indefinitely at 12% what woul be the equity value of the investor require 20% return?				. *
	b.	Examine the different forms of market efficiency.	7	L4	CO3
	c.	An investor wants to build a portfolio with the following four stocks. With the given details, determine his portfolio return and portfolio variance. The	10	L5	CO4
		investment is spread equally over the stocks.			
	Company α β Residual variance 1 0.17 0.93 45.15 2 2.48 1.37 132.25				
		3 1.47 1.73 196.28			
		4 2.52 1.17 51.98			
	Market return $(R_m) = 11$; Market return variance = 26				
Q.3	a.	Explain relative strength index.	3	L2	CO3
	b.	The current dividend on an equity share of NiBi Ltd is Rs.2/ NiBi is	7	L5	CO2
		expected to enjoy an above normal growth rate of 20% for a period of 6			
		years. Thereafter the growth rate will fall and stabilize at 10%. Equity			
	investors require a return of 15%. Determine the intrinsic value of the equity share of NiBi Ltd.				
		The following three portfolios provide the particular given below:	10	L5	CO4
	c.	Portfolio Average Annual Standard Correlation	10	LIS	COT
		Returns Deviation Coefficient			
		A 18 27 0.8			
		B 14 18 0.6			
	-	C 15 8 0.9			
		Market 13 12 -			
	Risk free rate of interest is 9. (i) Rank these portfolios using sharpe's and Treynor's methods. (ii) Compare both the indices.				
(ii) Compare both the indices.					L

Q.4	a.	Explain constant Rupee Plan.	3	L2	CO4
· · ·	b.	Explain the attributes that an investor should consider while evaluating an	7	L5	CO1
	D.	investment.	,	LS	COI
	-	Nihal is considering the purchase of a bond currently selling at Rs.878.50.	10	L5	CO2
	The bond has four years to maturity, face value of Rs. 1000 and 8% coupor			ЦЗ	CO2
		rate. The next annual interest payment is due after one year from today. The	3		
		required rate of return is 10%. Calculate the intrinsic value of the bond.			
		Should Nihal buy the bond?			
Q.5	a.	Explain Capital Asset Pricing Model.	3	L2	CO4
	b.	Analyse the Macro-economic factors that have a significant bearing on the	7	L4	CO3
		stock market.			
	c.	The following information is available for stock A and B.	10	L5	CO2
		Particulars Stock A Stock B			2
		Expected Return 16% 12%			
		Standard Deviation 15% 8%			
	-	Coefficient of correlation 0.60			
		(i) What is the covariance between stock A and B?(ii) Determine the expected return and risk of a portfolio in which A and			
		B have weights of 0.6 and 0.4.			
Q.6	a.	Explain the different types of risk.	3	L2	CO2
	b.	Outline the functions of stock exchange.	7	L2	CO1
	c.	The Beta and weights of 4 securities are as follows:	10	L5	CO4
		Security Beta Weights %			
		Infosys 0.89 25			
		Wipro 0.75 30			
		TCS 1.25 15			
		Inflex 0.58 30			
	The expected return from the market is 20%. Assuming a risk free rate of 4%. Calculate				
		(i) Expected return for each stock using CAPM.			
		(ii) Portfolio Beta.			
Q.7	a.	Explain APT.	3	L2	CO4
~~	b.	List the adventages of investing in mutual funds CMRIT LIBRARY	7	L4	CO4
	c.	Following data give the market return and the Sun company scrip return for	10	L5	CO2
		a particular period.			
		Index return (Rm) Scrip Return (R _i)			
		0.50 0.30			
		0.60 0.60			
		0.50 0.40			
		0.60 0.50			
		0.80 0.60			
		0.50 0.30 0.80 0.70			
		0.80 0.70 0.50			
		0.70 0.60			
		(i) Measure the Beta value of the sun company?			
	1	(ii) If the market return is 2, what would be the scrip return?			2

	Q.8	Case Study:			
		The market information's regarding the following stocks is given in the table:			
		Stock α β e_i^2			
		ABC -0.05 1.6 0.04 RSE 0.08 -0.3 0.00 CIV 0.00 1.0 0.10			
		(i) If the market index is expected to have a return of 0.20 and a	15	L5	CO4
¥)		variance of 0.20, which single stock would the investor prefer to own from the risk and return point of view.	0.5	L5	CO4
		(ii) Interpret the e ² value and α value of RSE. CMRIT LIBRARY BANGALORE - 560 037	05	LS	04

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