

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

Time: 3 hrs.

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Max. Marks: 100

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

- 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 :ProbabilitySecurity ASecurity B0.5400.4230.103Select the security of your preference. The security has to be selected on basis of return and risk.	7 the	L3	CO2
	c.	Explain in detail the investment process.	10	L5	C01
Q.2	a.	A Ltd would pay Rs.2.50 as divided per share for the next year a expected to grow indefinitely at 12% what woul be the equity value of investor require 20% return?		L1	CO2
	b.	Examine the different forms of market efficiency.	7	L4	CO3
	c.	An investor wants to build a portfolio with the following four stocks. We the given details, determine his portfolio return and portfolio variance. investment is spread equally over the stocks. Company $\alpha$ $\beta$ . 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 <sub>m</sub> ) = 11; Market return variance = 26		L5	CO4
Q.3	a.	Explain relative strength index.	3	L2	CO3
	b.	The current dividend on an equity share of NiBi Ltd is Rs.2/ NiB expected to enjoy an above normal growth rate of 20% for a period of years. Thereafter the growth rate will fall and stabilize at 10%. Equinvestors require a return of 15%. Determine the intrinsic value of equity share of NiBi Ltd.	of 6 hity	L5	CO2
	c.	The following three portfolios provide the particular given below :	10	L5	CO4
		PortfolioAverage Annual ReturnsStandard DeviationCorrelation 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.			

<sup>2.</sup> Question No. 8 is compulsory.

## 22MBAFM304

Q.4	a.	Explain constant Rupee Plan.	3	L2	CO4
×.,	b.	Explain the attributes that an investor should consider while evaluating an investment.	7	L5	CO1
	c.	Nihal is considering the purchase of a bond currently selling at Rs.878.50. The bond has four years to maturity, face value of Rs.1000 and 8% coupon rate. The next annual interest payment is due after one year from today. The required rate of return is 10%. Calculate the intrinsic value of the bond. Should Nihal buy the bond?	10	L5	CO2
Q.5	a.	Explain Capital Asset Pricing Model.	3	L2	CO4
	b.	Analyse the Macro-economic factors that have a significant bearing on the stock market.	7	L4	CO3
	c.	The following information is available for stock A and B.   Particulars Stock A Stock B   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.	10	L5	CO2
Q.6	a.	Explain the different types of risk.	3	L2	CO2
	b.	Outline the functions of stock exchange.	7	L2	COI
	с.	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. (ii)			
Q.7	a.	Explain APT.	3	L2	CO4
	b.	List the advantages of investing in mutual funds.	7	L4	CO4
	C	Following data give the market return and the Sun company scrip return for	10	L5	CO2
1	6	a particular period. Index return (Rm) Scrip Return (R <sub>i</sub> ) 0.50 $0.300.60$ $0.600.50$ $0.400.60$ $0.50$			
		0.80 0.60 0.50 0.30			
		0.80 0.70			
		0.40 0.50			
		0.70 0.60			
		(i) Measure the Beta value of the sun company?			
		(ii) If the market return is 2, what would be the scrip return? 2 of 3		L	L
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## 22MBAFM304

Q.8	Case Study:			
	The market information's regarding the following stocks is given in the			
	table :			
	Stock $\alpha$ $\beta$ $e_i^2$			
	ABC -0.05 1.6 0.04			
8	RSE 0.08 -0.3 0.00	- s		
	GIV 0.00 1.1 0.10			
	(i) If the market index is expected to have a return of 0.20 and a	15	L5	CO
	variance of 0.20, which single stock would the investor prefer to	1		
	own from the risk and return point of view. (ii) Interpret the $e_i^2$ value and $\alpha$ value of RSE.	05	L5	CO4
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