USN

22MBAFM304

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

Time: 3 hrs.

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:	7	L3	CO2
	1	Probability Security A Security B			
	i den	0.5 4 0			
		0.4 2 3		123765	15 14 14 14
	1.00	0.1 0 3			
		Select the security of your preference. The security has to be selected on the		X II V	
		basis of return and risk.			
		Explain in detail the investment process.	10	L5	CO1
	c.		1	2.5	
Q.2	a.	A Ltd would pay Rs.2.50 as divided per share for the next year and	3	*L1	CO ₂
		expected to grow indefinitely at 12% what woul be the equity value of the		4	
	1.5	investor require 20% return?	3 /	114	
*	b.	Examine the different forms of market efficiency.	7	L4	CO ₃
			10	L5	CO4
	C.	An investor wants to build a portfolio with the following four stocks. With	10	Lo	CU4
		the given details, determine his portfolio return and portfolio variance. The			
gr= 1		investment is spread equally over the stocks.			
		Company α β Residual variance	1		
		1 0.17 0.93 45.15	- A-		
		2 2.48 1.37 132.25	14		
£ 5 . K		3 1.47 1.73 196.28			Specific Al 1 July 1
	18.	4 2.52 1.17 51.98		Name of	
		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
	D.	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		ing the	
	V	investors require a return of 15%. Determine the intrinsic value of the			
		equity share of NiBi Ltd.	314		1
			10	TE	004
	c.	The following three portfolios provide the particular given below:	10	L5	CO4
		Portfolio Average Annual Standard Correlation	is her t		14.50
		Returns Deviation Coefficient			
	12.	A 18 27 0.8	100		1, 5, 1
	e sty	B 14 18 0.6	i v gi		4
	. And the second	C 15 8 0.9		I have	
	1:4	Market 13 12 -			
		Risk free rate of interest is 9.			
		(i) Rank these portfolios using sharpe's and Treynor's methods.			
arte, eus	10, 1	(ii) Compare both the indices.	1 1 1	Section 1	

		N. Park Control of the Control of th	2	L2	CO4
.4	a.	Explain constant Rupee Plan.	3	1 6	70.00
	b.	Explain the attributes that an investor should consider while evaluating an	7	L5	CO1
	Anna C	investment.	1	100	61133
		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
2.5	2.45	Analyse the Macro-economic factors that have a significant bearing on the	7	L4	CO3
	b.	stock market.			474
	25		10	L5	CO ₂
and the	c.	The following information is available for stock A and B. Particulars Stock A Stock B		1.	2.00
	3 .	Particulars Stock A Stock B Expected Return 16% 12%	79	8 4	1.47
	3.	Standard Deviation 15% 8%	*	13	Tin.
	78	Coefficient of correlation 0.60	13.		
		(i) What is the covariance between stock A and B?		in war.	
4.7	x, 2	(ii) Determine the expected return and risk of a portfolio in which A and	1		and the
		B have weights of 0.6 and 0.4.	- No.		1 1 1 1 1 1 1 1
Q.6	a.	Explain the different types of risk.	3	L2	CO2
2.0	1 Care 1	Outline the functions of stock exchange.	7	L2	CO1
1 - F	b.		10	L5	CO
	c.	The Beta and weights of 4 securities are as follows:			
A.		Security Beta Weights % Infosys 0.89 25	1 1 1	1.	
		Wipro 0.75 30	a.1.5	10.5	
		Inflex 0.58 30			
	265	The expected return from the market is 20%. Assuming a risk free rate of			
		4% Calculate	100		
	F	(i) Expected return for each stock using CAPM.			
		(ii) Portfolio Beta.	1 1/2		195
Q.7	a.	Explain APT.	3	L2	CO
ζ	-	List the advantages of investing in mutual funds.	7	L4	CO
	b.		10	L	CO
	c.				
		a particular period. Index return (Rm) Scrip Return (R _i)			
		0.50 0.30			
		0.60			
		0.50 0.40			
100		0.60 0.50	1.		
		0.80 0.60			
		0.50 0.30			
take Bills 14		0.80 0.70			
		ALIMENTATION OF THE STATE OF TH	S 1 5 30	Sec . 55	4 - 1 - 1 - 1 To 12 h
		0.40 0.50 0.70 0.60			

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			
	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	CO4
	variance of 0.20, which single stock would the investor preser to			
	own from the risk and return point of view.	0.5	1.5	CO4
	(ii) Interpret the e_i^2 value and α value of RSE.	05	Lo	001
		24	44 1	