U.S.N

P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi) Fourth Semester, Master of Business Administration (MBA)

Semester End Examination; August - 2023

## Portfolio Management

Max. Marks: 100

Note: Answer all FOUR full questions from PART - A and PART - B (Case Study) is compulsory.

Q. No.	Questions PART - A					Marks	BLs	COs	POs			
1 a.	Evaluate the different options for investment in securities available in investor.				10	L5	CO1	PO1				
b.	Summarize the importance of portfolio management.						10	L2	CO1	PO2,4		
		•	*	OR	C							
2 a.	Elaborate on v	arious s	ources of risk						10	L5	CO1	PO5
b.	Following are	the price	e and other d	etails o	f 3 stocks	for th	e year 2011,					
	Calculate the t	otal retu	rn as well as	the ret	urn relativ	ve for	the 3 stocks					
	Stock	s Beg	inning Price	Divid	end Paid	Er	ding Price		10	L5	CO1	PO2
	А		30		3.4		34					
	В		72		4.7		69					
	С		140		4.8		146					
3 a.	Evaluate the M	larkowi	z. Diversific	ation th	neory.				10	L3	CO1	PO1,2
b.	The return on 2	2 securit	ies under 4 s	tate of	economy	are gi	ven below:					
	Economy Prob.% ONGC% VSNL%											
		xpansion 30 15 8										
	Peak		40	40 10 18								
	Recess	ion	10	0 25 16		10	L4	CO2	PO4			
	Trough 20 5 24											
	Estimate the expected return of each stock and the portfolio return if amount is											
	invested in both the stock equally.											
	OR											
4 a.	a. Assume yourself as a portfolio manager and with the help of the following											
	details determine whether the securities are overprices and underpriced in											
	terms of the security market line.											
	Security Expected Return Beta Standard deviation											
	A 0.33 1.7 0.5											
	Ι	3	0.13	0.13 1.4 0.35				10	L5	CO2	PO2	
	(	2	0.26 1.1 0.4						10	<b>L</b> J	0.02	1.02
	Ι	)	0.12 0.95 0.24									

1.05

0.7

1

0

0.28

0.18

0.3

0

0.21

0.14

0.13

0.09

F F

Nifty Index

T Bills

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b.	Mr. Arjunan received a bonus of Rs. 50000/- from his company. He wants to						
	invest the money in two stocks. After a careful study of the stocks market he						
	selected rock and Reed corporations. The expected return in rock is 14% and						
	standard deviation of return is 22%. The return from the Reed corp is slightly	10	L6	CO2	PO1,3		
	higher being 16% and at the same time the standard deviation of return is also						
	higher being 25%. The correlation coefficient between them is 0.5. Construct a						
	minimum risk portfolio.						
5 a.	Discuss the Passive portfolio management strategy.	10	L5	CO3	PO1		

- b. Construct the optimal portfolio using sharpe single index model from the following data:
  - i) Risk free rate-5%
  - ii) Market return-20%
  - iii) Market value-10

Security	$R_i$	$R_i$ - $R_f$	$\beta_{i}$	$\sigma_{ei}^{2}$	$(R_i - R_f) / \beta_i$
1	15	10	1	50	10
2	17	12	1.5	40	8
3	12	7	1	20	7
4	17	12	2	10	6
5	11	6	1	40	6
6	7	2	0.8	16	2.5
7	5.6	0.6	0.6	6	1

10 L6 CO2,3 PO2

OR	
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6 a. Consider the following information for 3 mutual funds A, B, C and market index.

Particulars	Mean return in %	Standard deviation in %	В
А	12	18	1.1
В	10	15	0.9
С	13	20	1.2
Market Index	11	17	1.0

10 L4 CO3 PO1,3

L5 CO3 PO2

L4 CO4 PO2,4

L5 CO4 PO1

10

10

The mean risk free rate was 6%. Calculate TREYNOR measure, SHARPE measure and JENSEN measure for the 3 mutual funds and market index.

- b. Explain any two types of formula plans.
- 7 a. Discuss step involved in portfolio revision.
  - b. Distinguish between Treynor and Sharpe indices of portfolio performance?
     Which do you recommended? Why?

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8 a.	<ul><li>8 a. Summarize the important points to be considered in the offer document of a mutual fund.</li><li>b. What do you mean by heuristic biases? Explain any two related to financial investments.</li></ul>						L3	CO5	PO2	
b.							L1,4	CO5	PO2	
		PART - B (	Case Study Co	mpulsory)						
9.	9. Mr. Vijay is constructing an optimum portfolio. The market return forecast says that it would be 13.5 percent for the next two years with the market variance of 10 percent. The riskless rate of return is 5 percent. The following securities are under review.           Company $\sigma$ $\beta$ $\sigma^2$ Anil         3.75         0.99         9.35									
	Avil Bow Viril Billy	0.60 0.41 -0.22 0.45	1.27           0.96           1.21           0.75	5.92 9.79 5.39 4/52						
a. b. c.	Estimate the expected Construct the optimu Estimate the portfolio	m portfolio using s	sharp's single I	ndex Model.		5 10 5	L1,4	CO3	PO4 PO2 PO5	

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