	A4F1									I uge	110 1
					U.S.N	Γ					
	P.E	.S. Colle	ge of F	Engineer	ring, M	and	va -	571	401		
2 A	Canal Contraction of the second secon		U	nstitution af	U,		•				
	Fou Fou	irth Semest			·		0	,	BA)		
		Semest		Examinati		-	20)22			
<i>m</i> : 0	1		Por	tfolio Mai	nagement	• /			1.6		100
Time: 3	hrs			~ ~ ~					Max. I	Marks:	100
CO1 - TH $CO2 - TH$ $CO3 - TH$ $CO4 - TH$	he Students will he Students will he Students will	le to: understand the demonstrate the learn to constru demonstrate the gain the concep	concept of P ir conceptue ect the portfo ir knowledg	al knowledge o lio and to revi. e on portfolio p	gement. n various por se the same. performance e	evaluat	ion.				
		OUR full que	0	m PART - A	and PART	' - B (0	Case S	Study) is	comp	ulsory.	
	Scientific calci	ulators are alle		ang				Marle	DI -	<u>CO-</u>	DO-
Q. No.			Questi PART					Marks	BLS	COs	POs
1 a.	Discuss the d	lifferent phase			nent.			10	L2	CO1	1,2,4
		ts to purchase	-	_		lowin	σ				, ,
		-					-				
		Find out the e	expected re	eturn, varian	ce and SD.	wnic	n 1s				
	preferable?										
			irn in %	- Probability	v			10	L3	CO1	1,2,4
		X 5	<u>Y</u>								
		5	6 8	0.05							
		-4	10	0.15							
		14	12	0.45							
			OR	2							
2 a.	Explain the o	bjectives and	importance	ce of portfol	io managen	nent.		10	L2	CO1	1,2,4
	1	ts to purchase	•	-	U U		σ	10		001	1,2,7
		Calculate the					0				
			expected	iciuiii, vaita	lice and SD	. •• 111					
	preferable?										
		Probability		Returns (%)				10	L3	CO1	1,2,4
	-	0.3	Stock X 9	Stock Y	Stock Z 6						, ,
	-	0.5	15	12	10						
	-	0.2	18	15	14						
	Calculate the	e expected ret	urn and ris	sk of individ	ual securiti	es.					
3 a.		umptions of C									
		-						10	L2	CO2	1,2,4
	-	tet Line and s	•			-	-				
b.	Stocks L and	M have yield	led the fol	lowing retur	ns for the p	ast tw	0	10	L3	CO2	1,2,4
	years.										
					C	Contd.	2				

4 a.

b.

CO2 1,2,4

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	Year	Return L (%)	Return M (%)				
	2015	12	14				
	2016	18	12				
Calculate the	e following	;					
i) Expected	return on p	ortfolio made up	of 60% of L and	40% of M.			
ii) Standard	deviation o	f each stock.					
iii) Covariar	ice and coe	fficient of correla	tion between stor	k L and M.			
iv) Portfolio	rick of a p	ortfolio made of 6	50% of L and 409	% of M.			
		OR					
Discuss Mar	kowitz mo	del of portfolio di	iversification with	1	10	L2	
assumptions	with suital	ole graphs and illu	ustrations.		10	112	
Arul got the	following	information regar	ding his favorite	stocks. He			

wants to invest in all the four stocks equally.

Stocks	σ	β	σ_{ei}^2
1	1.27	1.5	50
2	1.02	1.05	40
3	2.48	1.37	20
4	0.47	0.86	35

10 L3 CO2 1,2,4

10

The market variance is 25. The markets expected return is 20%.

i) What would be Arul's portfolio return and risk?

ii) Can you advise him regarding the amount to be allocated on each

security so as to enhance his earnings?

- 5 a. Discuss constant ratio plan and constant rupee plan for portfolio revision with suitable examples.
 - b. Rank the three funds given below with the help of Treynor and Sharpe index.

Growth Fund	Return %	Beta	Alpha	
Х	15	1.5	12	
Y	17	1.6	14	
Z	13	0.75	11	
Risk free return	9			

10 L3 CO4 1,2,4,5

L2 CO3 1,2,4

Is there any difference in the ranking according to these measures? If so why?

OR

6 a. Discuss Portfolio Management Strategies.

¹⁰ L2 CO3 1,2,4

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b. Consider the following information for three mutual funds, X, Y, and

Z, and the market

		Market return	Standard deviation in %	Beta			
	Х	24	22	1.8			
	Y	16	14	1.2	10	L3	CO4 1,2,4,5
	Z	12	13	0.8			
	Market Index	10	10	1			
			Calculate TREYNOR meas	ure,			
	SHARPE measur	re and JENSEN n	neasure.				
		(OR				
7 a.	Discuss the work	ting of a mutual f	und and its organization st	ructure.	10	L2	CO5 1,2,4,5
b.	Discuss the follo	wing heuristic-dr	iven biases and cognitive e	rrors:			
	Representativene	ess, overconfidence	ce, Anchoring, A version to)	10	L3	CO5 1,2,4,5
	ambiguity, Innun	neracy.					
			OR				
8 a.	Explain any five	indicators used for	or assessing/evaluating				
	mutual funds.		0 0		10	L2	CO5 1,2,4,5
	mutuai funus.						
b.	Discuss the risks	and benefits asso	ociated with portfolio invest	tment.	10	L3	CO5 1,2,4,5
	Р	ART - B (Case S	Study) Compulsory				
9.	Case Study						

9. Case Study

A portfolio manager has got the following information about several stocks. He has to build a optimum portfolio for his client without short sales.

Security	Expected Return	β	α_{ei}^2
А	22	1	35
В	20	2.5	30
С	14	1.5	25
D	18	1.0	80
Е	16	0.8	20
F	12	1.2	10
G	19	1.6	25
Н	17	2.0	30

The market index variance is 12percent and the risk free rate of return is 7 percent.

- a. Determine the expected return of individual securities.
 b. Estimate the cut off rate as per the Sharpe's single index model and ascertain the weights for each individual security forming the 10 L4 CO3 1,2,4 optimum portfolio.
- c. Estimate the portfolio return.