

Trim: Sep – Nov 24							
Maximum Marks: 50 Examination: ETE Exam Date: 16/01/2025 I	Ouration: 3 Hours						
Programme code: 01 Programme: MBA Minor(Finance)	Class: SY Semester/Trimester: V						
College: K. J. Somaiya Institute of Management	Name of the department/Section/Center: Finance & Law						
Course Code: 217P01M537	Name of the Course: Investment Analysis & Management						
Instructions: 1) Q.1 is Compulsory							
2) Attempt Any 3 Questions from rest of the questions.							
3) If Charts are Attempted, kindly attach charts with main answer	sheet.						

Question No.				Max. Marks						
Q.1)	Attempt A & B Both			20						
A)	The monthly return data for stock TCS and market index for a 12- month period is given in table. Calculate Beta for TCS.									
	Month TCS (%) Market Index (%)									
	1	9.43	7.41							
	2	0	-5.33							
	3	-4.31	-7.35							
	4	-18.92	-14.64							
	5	-6.65	1.58							
	6	26.57	15.19							
	8	2.93	5.11							
	9	5.2	-0.97							
	10	20	10.44							
	11	21	17.47							
	12	30	20.15							
B)	Design a Portfolio for inversion for the same).	estor whose age is 35 years across asset class and provide	le justification for the same. (Make your suitable Assumptions	10						
Q.2)	Attempt (Any 2)									
A)	Describe various characteristic of an industry that an analyst must consider while doing industry analysis for FMCG Sector.									
В)	Identify Buy and Sell Recommendation using Candle Stick Patten- (1 Candle Stick, 2 Candle Stick and 3 Candle Stick Pattern-One each) and describe the Pattern -Refer Infosys -Chart-1									
C)	Plot at what price levels you will Buy and Sell stock and Provide Recommendation now along with justification for the same.									
	Using Moving Average & Stochastic. Describe the indicators- Refer TCS - Chart-2									
Q.3)	Attempt (Any 2)									

A)	Discuss Efficient Market Hypothesis Theory										5	
B)	Consider a portfolio of six securities with the following characteristics:									5	5	
	Security	Weighting	α	β	Residual	2 idual variance (%) σ ei						
	1	0.1	-0.28	0.91			23					
	2	0.15	0.76	0.87			60	-				
	3	0.2	2.52	1.17			52					
	4	0.1		0.97			86	-				
	5	0.25		1.07				+				
	Assuming the re	0.2 turn on market inde	•	0.86 and the st	tandard de	viation of return	on market index		calculate the portfolio ret	turn		
	and risk under single index model											
C)	Discuss various	types of systematic a	and unsystem	atic risk?						5	5	
Q.4)	Attempt (Any 2)									1	10	
۸)	Discuss the CAPM and its relevant Assumptions									5	5	
3)	The following ar	re the data on Five M	futual Funds							5	5	
	Fund	1	Return (%)		\$	Standard Devia	tion (%)		Beta			
	A			15			7		1.25			
	В			18	10		10		0.75			
	С			14		5			1.4			
	D			12		6			0.98			
	E			16			9		1.5			
	You are required to Compute and Rank these Portfolio using 1) Sharpe method 2) Treynor's method Assuming the risk-free rate is 6%											
C)		The following data are available to you as portfolio manager									5	
	Security		Estimate	d return ('	0%)		Beta	Standard				
	Tata Steel					30	2			50		
	Tata Motors					25	1.5			40		
	Ashok Leyland	d				20	1			30		
	Maruti					11.5	0.8			25		
	Eicher Motor					10	0.5			20		
	Nifty index				15 1					18		
	Govt Security					7	0			0		
	In terms of the security market line, which of the securities listed above are underpriced?											
0.5)	Attempt (Any 2)								1	10	

A)	Explain Portfolio Revision Process								
B)	Find the portfolio variance of a portfolio consisting of equities, bonds and real estate, if the portfolio weights are 25%, 50% and 25%. The Standard deviations are 0.1689, 0.0716 and 0.0345 respectively. And the correlations are 0.45 for equity and bonds, 0.35 for equities and real estate, and 0.20 for bonds and real estate.								
C)	What is the optimum portfolio in choosing among the following securities and assuming Rf= 5 % and Market Variance = 10 %. Security Expected Return Beta 2 ei								
	A	15	1	30					
	В	12	1.5	20					
	С	11	2	40					
	D	8	0.8	10					
	Е	9	1	20					
	F	14	1.5	10					