VPM's DR VN BRIMS, Thane Programme: MMS (2021-23)

Third Semester Regular Examination February 2023

Course Name: Security Analysis and Portfolio Management		Course Code	MMS - F306
Roll No.		Marks	60
Total No. of Questions	6	Duration	3 Hours
Total No. of printed pages	3	Date	10/02/2023

Course Outcome Statements:

CO1: RECALL basic terminologies in relation to Security Analysis and Portfolio Management

CO2: EXPLAIN the concepts & formulas pertaining to Security Analysis and Portfolio Management

CO3: MAKE USE OF formulas and frameworks related to securities risk and return analysis, capital market theories, portfolio theory, investment decision theory, indexing and benchmarking, technical analysis and fixed income security analysis

CO4: EXAMINE the various types of financial results with respect to risk and return, CAPM, Sharpe ratio, Treynor ratio, Jensen's Alpha, M-squared, technical analysis, Mutual Fund performances pricing of bonds, for making relevant inferences

CO5: ASSESS financial information related to security analysis for investment decision making

Instructions: -			Marks	BL	CO
Q. No 1 (All Questions are Compulsory)					
Q. No.		Questions			
Q. 1		Case/Case-let Study (500-800 words)			
	a.	Dr. Zenith is an American Fund manager investing in large cap Equity from several years, he set-up a fund called as 'XanR Fund' in 2011. XanR also offers Portfolio Management Scheme (PMS) services to individual clients. XanR has continuously outperformed the market over last few years and a lot of young analysts see joining XanR as an amazing learning opportunity for building their career in Investment Analysis and portfolio management. Dr. Zenith appoints Mr. Archon as an interviewer for the ongoing technical round of interviews. Mr. Archon puts candidates to test on their analytical ability with the following scenario-based question: Imagine a High Net Worth (HNI) client, financially independent, aged 59, approaching you with willingness to take low risk. The client has a kid who is very well settled and is not dependent on the client at all. The client is currently working as 'Head of US Operations' for a multi-national pharma company but planning to retire in a year or two. On priority, he wants to maintain his standard of living and continue building wealth. He also wishes to set-up a trust for his 1 grandchild. As a secondary objective he would like to contribute some wealth to charity. Analyse the above scenario purely from a Qualitative Aspect and highlight which factors you would consider before designing portfolio of the client? Write answer in Pointers keeping in mind the process of portfolio management.	6	Level 4	CO4
	b.	Mr. Archon goes on with the interview process and decides to test the problem-solving ability of candidates. He writes down			CO5
		some basic data and asks the candidates to Decide which of the	6		
		following equal-weighted portfolios will have lower portfolio			

Q. 2	a.	risk: Portfolio A SD of Stock 1 = coefficient = 0.1 Portfolio B SD of Sock 1 = coefficient = 0.8 An Assess which sec & M-squared me		Level 5	CO5				
		E(R)	dilite 15%	Havells 20%	Sensex 12%	_	6		
		SD	10%	12%	8%				
		Beta	1.2	0.8	1	1			
		Rf		5%					
	b.	Evaluate which			curities are ov	rervalued and		Level 5	CO5
		undervalued by c				7			
		Security	Beta 2	10	erage Return	4			
		A B	0.5	10		-			
		С	1	18		=	6		
		D	1.5	14		1			
		Sensex (Market	_	12					
		Portfolio)							
		Assume Rf = 5%							
Q. 3					the following.				
	a.	i) Examine por				•		Level 4	CO4
		securities to find				k C. Portfolio			
		Return = 11.4% a Stock	Retur		1.3 Beta	7			
		A	10%		.2	-			
		В	-3%		.1	-	_		
		C	?			-	6		
		Assume weights	of A, B a	nd C are 0.	4, 0.2 and 0.4 r	respectively.			
		ii) If Variance of the beta of the se of correlation bet	curity is ween sec	1, Analyse urity and th	what must be to be market?	he coefficient			
	b.	i) Analyse the given						Level 4	CO4
		Buy/Sell based on the value of each technical indicator separately with a brief explanation:							
		Indicator		Value/Observation					
		RSI	MAGI	72					
		MACD		MACD Line Cuts Signal Line			6		
		DI+ and DI-		and Goes Below DI- is below DI+					
		Parabolic SAR		The Dots are appearing below					
			the lin	•	O O O O O O O				
		Bollinger Band		The Price keeps touching the					
			_	bottom band.					
		Support and	The	price has	broken the				

	ĺ	Resistance	e Suppor	4				1	
Q. 4			- 1						
Q. 4	a.	Answer Any two from the following. Calculate 'Free-Float Market Cap' weighted Index and 'Price' Weighted Index based on the following data:						Level 3	CO3
		Security No. of Price Promoter Instruments (Rs.) Holding							
		A	10	300	60%	1	6		
		В	25	250	75%]			
		C	30	50	40%				
		D	15	150	55%				
	c.	Solve the following 2 questions: i) Mr. Sam Smith purchased a share of Alphabet Inc. at \$48.90 and held it for 3 months, during these 3 months he received a total dividend of \$6.5 and then he sold the shares at \$65.20. Find HPR, BEY and EAY. ii) Find SD of the following stock: Year						Level 3	CO3
Q. 5		annually. Answer Any two from the following.							
	a.	Expected]			ket Hypothesis.	_	6	Level 2	CO2
	b.	to find intri	Describe the following terms: i) Index Funds and ii) Approaches to find intrinsic value of equity shares				6	Level 2	CO2
	c.	Explain the concept Efficient Frontier and Characteristic Line? [Diagrams are expected]					6	Level 2	CO2
Q. 6		Answer Any two from the following.							
	a.	Recall varie	ous types of Bo	nds with th	eir brief meanir	ng.	6	Level 1	CO1
	b.	What is Dow-Theory and its 6 tenets/principles?				6	Level 1	CO1	
	c.	What is the 5-factor model of Fama-French?					6	Level 1	CO1