

MANGALORE INSTITUTE OF TECHNOLOGY & ENGINEERING

(A Unit of Rajalaxmi Education Trust®, Mangalore)
Autonomous Institute affiliated to VTU, Belagavi, Approved by AICTE, New Delhi Accredited by NAAC with A+ Grade & ISO 9001:2015 Certified Institution

Model Question Paper

Third Semester MBA Degree Examination

Security Analysis and Portfolio Management

Time: 3 Hours Max. Marks: 100

Note: 1. Answer any FOUR full questions from Q1 to Q7.

2. Question No. 8 is compulsory.

3. M: Marks, L: RBT (Revised Bloom's Taxonomy) level, C: Course outcomes.

					M	L	C
	a.	Ananya has invested ₹1,50,000 in a mid-cap company that recently launched a new product. However, after an initial surge in stock price, the product received negative reviews, and the stock price dropped by 15%. Ananya is unsure whether to hold her investment or sell. Choose best stratergy for Ananya to consider before making decision to sell or hold the stock?					CO1
	Ь.	Roy's Investments Pvt. Ltd.,a growing portfolio management firm, has recently onboarded two new analysts, Rahul and Sneha. Both are talented but follow different investment strategies. The firm wants to clarify the differences between technical analysis different from fundamental analysis. Being a management consultant kindly advise them.				L3	CO1
Q1	c.	Stock Asian Paints Bajaj Finance Hero Motocorp Indus Ind Bank If the risk-free rate of inte market return is 15%. The rethe portfolio. Analyze using	diversified portfolio of ing portfolio performance a four-stock equity portfolio Market Value (Rs) 200000 100000 150000 rest is 9% expected by M management wants to determ the capital Asset Pricing N	equity investments for its assessment, the investment to. The details are Beta 1.16 1.20 0.8 0.5 anasu Investments and the mine the expected return of Model (CAPM).	10	L4	CO2
	a.	Suresh has invested ₹1,00,000 in a stock that has been performing well recently. However, there has been news of political instability in the country, which is causing market-wide uncertainty. Suresh is concerned about the impact of this event on his portfolio. Identify the type of risk Suresh is exposed to, and how can he mitigate this risk through diversification in his portfolio.				L3	CO1
Q2	b.	Elegant Investments Pvt. Ltd. is preparing for its Quarterly Client Review Meeting. The firm's Research and Strategy Team has been asked to explain how various macroeconomic factors influence the stock market, especially in the current economic environment. To make the session engaging, you being a manager at the firm discuss about various macro-economic variables and their impact on the stock market.			07	L3	CO3

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	c.	You are a junior finance	ial analyst at	Malini Inves	stments Pvt. Ltd., a well-					
		established portfolio management company. The firm is currently evaluating to								
		securities—Security A an	nd Security B-	—as potentia	l investment opportunities.					
		The returns of securities of A and B are given below								
		Probability Security A Security B								
		0.5	4	4	0	10	L3	CO3		
		0.4								
		0.1 0 3								
		Give the security of your preference. The security has to be selected on the basis								
		of return and risk. Your recommendation will play a critical role in deciding								
		which security to include								
	a.		-	•	both preference shares and					
					inderstand the difference in	0.2		004		
					in informed decision. Select	03	L3	CO4		
			odels to assess	s the value of	f the preference shares and					
-	b.	equity shares	aggritica 1 2 a	and 2. The pro	oportions of these securities					
	υ.				rd deviations of returns on			CO3		
					6, $\sigma 2=9$ and $\sigma 3=10$. The	07	L3			
Q3					are P12=0.4, P13=0.6 and	07	LS			
		P23=0.7. Find the standar								
_	c.									
	c. Sandeep invested in a technology stock in 2018 based on a promising growth forecast. However, the stock price fell dramatically in 2020 due to unforeseen									
		10	L3	002						
					well-diversified portfolio, dy returns. Make use of	10	LS	CO3		
		fundamental analysis and	technical anal	ysis, identify	why Sandeep's investment					
		failed and Neha's strategy								
	a.	a. Ravi is looking to invest in a company using the Price-to-Earnings (P/E) ratio								
					earnings per share (EPS) of					
		₹50 and a P/E ratio of 15. Ravi wonders how the P/E ratio can help him value the					L3	CO4		
		company's stock compared to using the dividend-based models. Make use of the								
		above scenario and suggest how can Ravi apply the P/E ratio valuation model to estimate the value of the company's stock								
_	b.	Rathan Investments Pvt. Ltd. is expanding its Research and Advisory Services.								
	0.	To strengthen its fundamental analysis approach, the firm has decided to								
						07	L3	CO3		
		implement the EIC framework while evaluating stocks for long-term investments. Apply EIC model for discussion on fundamental analysis.								
	c.	FT 0.11 1 1 11 11 0.11								
Q4			nated return		Standard					
-		(%)			deviation (%)					
		A 30		2.0	50					
		B 25		1.5	40					
		C 20		1.0	30			a = =		
		D 11.5		0.8	25	10	L4	CO5		
		E 10.0		0.5	20					
		Market index 15		1.0	18					
		Govt. security 7		0	0					
		1 In terms of the soc	urity market li	ne identify w	which of the securities listed					
		above are underpri	•	ne, identity w	anon of the securities listed					
		above are underpri								

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		2. Assuming that a portfolio is cons five securities listed above, calculat a portfolio.						
	a.	Ravi is considering buying a bond that pay value of ₹1,000. The bond has 5 years to n ₹950. Make use of above information and of this bond, and what does this value representation.	naturity, and its c calculate the Yie	urrent market _l ld to Maturity	price is	03	L3	CO3
Q5	b.	Anjali is deciding between two stocks, Stock A and Stock B, for her investment portfolio. Stock A has a return of 10% with a risk (standard deviation) of 12%, while Stock B offers a return of 15% with a risk of 18%. The correlation between the two stocks is 0.2. Anjali is considering combining these two stocks in her portfolio. Using the Markowitz Model, analyze how can Anjali assess the benefits of diversification and the overall portfolio risk if she invests in both stocks? Should she diversify her investment to reduce risk?						CO5
	c.	Sunrise Wealth Managers Pvt. Ltd. is a reputed investment advisory firm specializing in debt portfolio management for conservative investors. One of their prominent clients, Mr. Arvind Rao has made investments and come to you for further analysis. He has submitted the following information on a bond Factural value Rs 100 Coupon rate: 12% p.a. Years to maturity: 6 years current market price: Rs 110. Find out the duration of the bond using YTM to analyze the values						CO2
	a.	Vikram holds a portfolio of bonds with duration of 4 years, and Bond B has a dura market is expected to rise by 2%. Identification affect the price of Vikram's bonds, and where changes based on duration?	e in the ncrease	03	L3	CO3		
	b.	Security J has a beta of 0.75 while security K has a beta of 1.45. calculate the expected return for these securities, assuming that the risk free rate is 5 per cent and the expected return of the market is 14 per cent.					L3	CO4
Q6	c.	NovaTech Ltd. is an emerging technology historical return data for the past 9 period Index. You are asked to calculate beta of further analysis. Mkt.	y company. The ds for NovaTech f company Nova	Ltd. and the	Market	10	L4	CO5
	a.	Suman is interested in investing in the stock market but is not sure where to start. She wants to understand the process of making an investment decision. Identify main steps involved in making an informed investment decision.					L3	CO1
Q7	b.	Anjali is new to investing and wants to understand the process involved in making sound investment decisions. She is considering various financial instruments such as equity shares, bonds, and mutual funds. Make use of the above scenario and suggest the investment process that Anjali should follow.					L3	CO1
	c.	An investor owns a portfolio composed of five securities with the following characteristics. Security Beta Standard deviation (per cent) Proportion					L4	CO5

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		25WD1 E								
		1	1.35	5	0.10					
		2	1.05	9	0.20					
		3	0.80	4	0.15					
		4	1.50	12	0.30					
		5	1.12	8	0.25					
		If the standard deviathe portfolio?	tion of the market in	ndex is 20 per cent,	Analyze total risk of					
			CASE STUDY	(Compulsory)						
	a.	You are a financial analyst at Reethesh Investments Pvt. Ltd., tasked with advising a high-net-worth client who is keen on making strategic equity investments for the next year. The client has shortlisted two stocks based on preliminary research-Stock Y and Stock Z. You being a financial analyst is analyzing two investment alternatives stock Z and Stock Y. The estimated rates of return and their chances of occurrence for the next year are given below. Probability of Rate of return (%)								
Q8		occurrence	<u> </u>	•	Z	20	L4	CO5		
		0.20	2		5					
		0.60		4	15					
			0.20 -4 25							
		Client is expecting you to analyze from his investments								
		i. Expected rates of return, variance and standard deviation of Y and Z to decide future investments.								
		ii. Is Y comparatively riskless so that more investments can be made?iii. Assume the financial analyst wishes to invest half in Z and another								
			would it reduce risk		an m Z and another					
		11411 111 1,	would it icauce lisk							
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