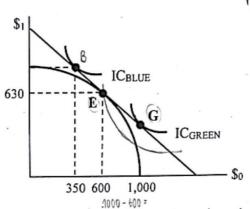
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2604639 Finance Theory (Section 1) QUIZ #1_2023

1. Assumed two time periods, perfect certainty, and perfect capital market. The following graph shows the PPC of a firm, the Capital Market Opportunity Line and IC's of 2 shareholders, Mr. Green and Mr. Blue. The numbers are expressed on a per share basis. The firm starts with \$1,000/share initial endowment. The management must decide how much to invest in real production and how much to pay out as current dividend. The current market interest rate is 20% pa. [3]



in real production today, pay the The optimal investment decision is to invest \$ 400 _ and pay the future dividend of \$_ current dividend of \$___600____

How would moving from consumption basket E to basket G affect Mr. Green's total utility? Explain in terms of MRS, (1+r) and MRT, whichever relevant. Basket E is not the optimal consumption Mr. orgen will Mr. Green. So moving from consumption haslet Green's total utility

By how much does the firm pay the current dividend more than Mr. Blue's preferred level of current consumption? Should Mr. Blue ask the firm to invest the excess current dividend in real production or should he invest the excess current dividend in the capital market by himself? correctly divided than Mr. Blue's preferred level of invest beyond Mr. Blue should not ask the firm beauth point because the cost of borrowing (1) is higher the value of film. Thus, Mr. Blue should invest his excess current divided in capital market by himself to bashet B, where his MRS B = 1+1.

	Name Suparal Palarasupinit Student ID 6684069326 Section
2. Mr	litti is considering \$\pm\$ risky investments with the following payoffs.
	- Stock B: payoffs = $(0.6 \times $60, 0.4 \times $30)$
	where, (α ×\$X, (1- α)×\$Y) means the probability of receiving \$X is α , and receiving \$Y is 1– α
rationa	vestors in the market behave in accordance with the axiom of choice, what would be the all price range for stock B? Apply the axiom of choice and show your analysis step-by-step. Be whether the price range is a closed or open range. [2]
► Assun	ning that stock X has payoff = (1 x \$ 60, 0 x \$ 30) -> Px = 160
L, F10	in axioms of ranking and Satiation of want, we can conclude that all investors
prefer	stock x more than stock B.
1 P 53U	miny that spock y has payoff = (0 x 160, 1 x \$30) - py = \$30
4 Fro	m exicusof ranking and satisficu of want, we can unclude that all investors
prefe	1 slock B more than stock Y
. Thus	from axioms of non-satiation of want, vanling, and certainly equivalent,
nation	ral price range for stock is is \$30 < P < \$60 or P (930, \$60)
	END