50%

✓ Correct

! Try again once you are ready

TO PASS 60% or higher



GRADE 50%

Understand Quantitative Strategies

	•		O
LATEST SUBMISSION GRADE			

1.	If you believe that the price and volume history of an asset are all that is needed to design a trading strategy then you would would use an endogenous trading rule. What is the theoretical justification for using this type of strategy?	0 / 1 point
	Asset and market prices tend to have momentum so that stocks whose prices are in an up trends tend to increase in value and those in a downtrend tend to decrease in value.	
	Correct Yes, if you believe that asset prices have momentum then price and volume data is all you need to make predictions of future prices.	
	Markets are efficient and fully incorporate all available information (both public and private).	
	If markets are efficient and fully reflect all available data, then price changes are entirely random and trading rules (both endogenous and exogenous) cannot consistently earn profits.	
	Asset prices follow a random walk with equal probabilities of increasing and decreasing	
	Fundamental data such as historic earning and sales growth are already fully reflected in the current market price and so have no predictive power.	
2.	The basic trading model parameters are entry signal, profit exit, stop-loss and time-out . How can you use these parameters and machine learning to optimize your trading strategy?	1/1 point
	Vary the the type of entry signal, profit exit levels, stop loss levels and trade completion time limits in backtesting with the objective of maximizing risk adjusted return (Sharpe ratio) within your tolerance for PnL volatility and maximum drawdown.	
	Vary the the type of entry signal and profit exit levels in backtesting with the objective of maximizing risk adjusted return (Sharpe ratio).	
	O Vary the the type of entry signal and profit exit levels in backtesting with the objective of maximizing profit.	
	Correct Yes, Sharpe ratio maximization leads to an optimal trading strategy as long as it is constrained by time limits, PnL volatility limits and maximum drawdown tolerance. This will give you a strategy with stop-loss levels that can be tolerated when you implement it in live trading.	
3.	The main benefit of a dynamic stop loss over a static stop loss is that:	1/1 point
	Oynamic stop losses guarantee that your strategy will not make a loss even if it is stopped out.	
	Dynamic stop losses reduce the expected risk of your strategy.	
	Oynamic stop losses increase your expected returns from a trading strategy.	

Yes. Dynamic stop losses, which maintain a fixed margin between the stop-loss level and the most favorable market price achieved, can reduce the maximum loss in a strategy (at worst the maximum loss is unaffected). This reduces the expected risk in the strategy but also make it more likely that you will be stopped out rather than profited out. This can have a negative impact on your expected return from a strategy.

End	ogenous trading rules are often created by:	0 / 1 point
0	Technical analysts	
•	Statistical arbitrage traders	
\bigcirc	Strategists	
0	Quantitative trading groups	
	! Incorrect Stat Arb refers to trading strategies which use mean reversion analysis to invest in zero beta pair or portfolios of related assets for a very short time periods, Stat Arb necessarily uses exogenous data such as beta, prices of other securities and fundamental data. Please have a look at the video on endogenous and exogenous trading	
	rules and reconsider.	

4.