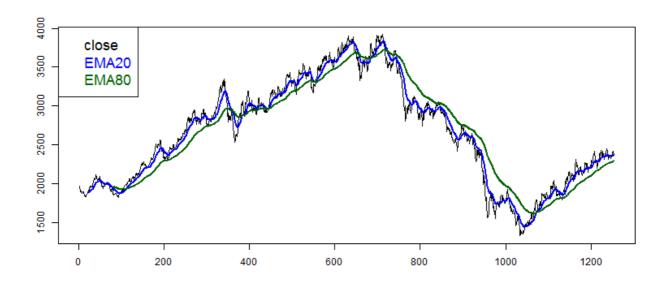
Sample HFD exam questions:

- 1. Explain in your OWN words what is algorithmic trading? What markets are suitable for that?
- 2. How fundamental analysis can be used in HFT strategies? Give an example of such strategy.
- 3. Explain in OWN words the notion of autocorrelation. How can it be used in trading strategies? Give an example of such strategy.
- 4. Explain in OWN words the notion of cointegration. How can it be used in trading strategies? Give an example of such strategy.
- 5. Explain in OWN words what is a momentum strategy. Give an example. What are potential sources of trending behavior?
- 6. Explain in OWN words what is pair trading. What statistical tools are useful in such strategies?
- 7. What is a bid price, an ask price, a mid price, a bid-ask spread and a tick?
- 8. What is volatility? Give two examples of its measures. How can it be used in trading strategies?
- 9. Explain in OWN words what is a drawdown, a maximum drawdown, a maximum drawdown duration?
- 10. Explain in OWN words what is a periodic pattern. Give 2 examples (with intuitive explanation) of periodic patterns for HFD.
- 11. Explain in OWN words what kind of data and why are adjusted for splits and dividends.
- 12. What are the advantages and disadvantages of Sharpe Ratio?
- 13. Explain in OWN words the meaning of LPM/HPM.
- 14. Explain in OWN words what is a data-snooping bias.
- 15. Give at least 3 examples of different entry techniques. Discuss their advantages and disadvantages.
- 16. Give and explain 2 examples of statistical arbitrage strategies for equities.
- 17. Explain in OWN words the idea of event arbitrage. Give 5 examples of particular events which might be traded upon.
- 18. Describe shortly what strategy would you consider in case of below group of assets (mention just one strategy and justify it theoretically)...
- 19. Based on the below statistics please calculate the correct value of the Calmar/Sterling ratio...
- 20. Having the following statistics for different strategies please rank them from most to least profitable...
- 21. Describe the strategy shown on below plot. What entry technique is used here? Do you think that the strategy was successful over the period presented on the plot?



Position taken

