## Introduction to Finance Quiz on Corporate Debt

Answer succinctly	and precisely.	Snow all of your wo	ork.

1.	(20 points) Explain the difference between how the US Treasury interfaces with the capital markets to obtain debt capital and how public companies like Verizon and 3M interface with the capital markets to obtain debt capital.
2.	(10 points) Which approach to raising debt capital from your answer to #1 is cheaper? Explain.

3.	Bloomberg shows that Northrup-Grumman has a $6.65\%$ Jan. 15, 2028 note selling at $116.278\%$ of par. Bloomber reports that the yield to maturity on this note is $4.55\%$ on a bond-equivalent basis and that this note's spread over the benchmark Treasury – the $2.25\%$ of November 15, $2027$ – is 193 basis points.
	(a) (10 points) What is the yield to maturity on the benchmark Treasury?
	(b) (10 points) What would you estimate the annual hazard rate for Northrup-Grumman defaulting on this deb
	issue to be? Show how you get this estimate.
	(c) (10 points) Given your estimate from the previous question, what estimate would you infer from market price about the probability of Northrup-Grumman defaulting over the 10-year term of this note?
	about the probability of Northrup-Grumman defaulting over the 10-year term of this note:

