## Quiz 07 for Sept 19

Started: Sep 18 at 11:28pm

## **Quiz Instructions**

Complete this quiz by 11:00 a.m. on Monday September 19. Read the questions carefully, and use caution in submitting your answers. No credit is given for incorrectly submitted answers.

Question 1		1 pts
with probability 0.3; st (low economic growth discount factor at the L, respectively. What	year there are 3 possible states: state H tate N (normal economic growth) with possible valuate one-year horizon, $m_{01}$ , are 0.6, 0.9, and would be the current continuously-compupon bond that pays a riskless real cash	robability 0.5; and state L es of the real stochastic d 1.6 in states H, N, and bounded real yield to
State your answer as decimal places, e.g.,	a continuously-compounded percentag 3.41 .	e interest rate to 2
, , ,		

-	Question 2
	On September 13, 2022 the US government announced that consumer prices had risen in August by 0.6 %, which was higher than the expected rise of 0.3%. Based on the theory in Note 13 Real and Nominal Interest rates, we would expect that the bond market reaction to this announcement was
	<ul> <li>○ an increase in the 5-year break even inflation rate.</li> </ul>

a rise in nominal Treasury bond prices.	
a rise in TIPS bond prices.	
<ul> <li>○ a decline in the 5-year break even inflation rate.</li> </ul>	
Question 3	1 pts
If the market price of a coupon bond is less than the value of a porthat mature when the bond pays its cashflows and whose face value bond's coupons and principal payments, then	
an arbitrage is to buy the coupon bond, STRIP it, and sell the coupon are	nd principal STRIPS.
<ul> <li>an arbitrage is to buy the portfolio of STRIPS, reconstitute the coupon bond, and then so the coupon bond.</li> </ul>	
o an investor who owns the coupon bond should sell it and buy the STRIP	PS.
the coupon bond's price would be expected to depreciate relative to the STRIPS.	value of the
Question 4	1 pts
Coupon STRIPS that mature in 6 months and 1 year have semi-an yields to maturity of 3.2% and 3.8%, respectively. In addition, a prir	•

Coupon STRIPS that mature in 6 months and 1 year have semi-annual compounded yields to maturity of 3.2% and 3.8%, respectively. In addition, a principal STRIP that matures in 1 year has a semi-annual compounded yield to maturity of 3.7%. What is the no-arbitrage price of a coupon bond that has a remaining time to maturity of exactly 1 year, a face value of \$100, and pays semi-annual coupons at an annual coupon rate of 4%?

State your answer in dollars to 2 decimal places (nearest cent), e.g., 98.74.

100.29

**Question 5** 1 pts Ask one or more questions or make one or more comments regarding the material covered in this class. Edit View Insert Format Tools Table Is this real interest useful? If yes, in what occcasion?

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Quiz saved at 11:29pm

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