

Name: _____

Roll Number: _____

- Each Question is worth 1.5 points. Wrong answers are -0.75 (negative marking), no answers are 0 points.
- Please circle the right answer. Each question has **ONLY ONE** right answer.

Answer the following questions:

- Yield to maturity ratio (YTM) of a 0 coupon bond sold well below face value is
 - Less than the coupon rate
 - More than the coupon rate**
 - Equal to the coupon rate
 - Unrelated to the coupon rate.
 - None of the above.
- Consider the following cashflow stream:

$$\$8000 = \frac{\$1000}{1+r} + \frac{\$1000}{(1+r)^2} + \frac{\$1000}{(1+r)^3} + \frac{\$1000}{(1+r)^4} + \frac{\$1000}{(1+r)^5} + \frac{\$10000}{(1+r)^5}$$

Find r

- 0.100
 - 0.092
 - 0.068
 - 0.161**
- YTM of a simple loan is given by (you can easily figure it out)

- $r = 1 + \sqrt[n]{\frac{\text{Money Paid Back}}{\text{Money Borrowed}}}$
- $r = 1 - \sqrt[n]{\frac{\text{Money Paid Back}}{\text{Money Borrowed}}}$
- $r = 1 - \sqrt[n]{\frac{\text{Money Borrowed}}{\text{Money Paid Back}}}$
- $r = 1 + \sqrt[n]{\frac{\text{Money Borrowed}}{\text{Money Paid Back}}}$
- None of the above.**

For 3., marks to be given to everyone since option e. was missing in the question paper.

- Consider a perpetuity with payment of C in every period. Also consider an interest rate i . The cashflow is given by
 - $C, C, C, C \dots$**
 - $\frac{C}{1+i} + \frac{C}{(1+i)^2} + \frac{C}{(1+i)^3} + \dots$
 - $\frac{C}{1+i}, \frac{C}{(1+i)^2}, \frac{C}{(1+i)^3}, \dots$
 - $\frac{i}{C}$
 - None of the above.

5. If price of a perpetuity is \$2242 and the YTM is 0.05, the annual payment is? (No options but negative marking still holds)

\$112.1

6. During a period of real business cycle expansion, which if the following is true for bonds (demand supply model)?
- Increase in both interest and Price.
 - Decrease in both interest and price.
 - Increase in one and decrease in the other.**
 - Can be a., b. or c.
7. An increase in the money supply leads to a rise in interest rates in response to the higher level of income. This is known as:
- Money Effect.
 - Level Effect.
 - Price Effect.
 - Income Effect.**
 - Can be any of the above.
8. As the interest rate on bonds, i , rises
- The opportunity cost of buying bonds rises
 - The opportunity cost of holding money falls
 - Holding money is less desirable.**
 - None of the above.
9. Consider a market with only 2 assets A and B. The risk of both assets increase but the risk of A increases more than B. Their expected returns remain the same (as do risk and returns of all other assets). For a risk loving investor,
- Their demand for asset A increases relative to B.**
 - Their demand for asset B increases relative to A.
 - Their demand for both assets remain unchanged.
 - Can't say.
10. The spread between the interest rates on bonds with default risk and default-free bonds, called the
- Interest Premium.
 - Risk Premium.**
 - Default Premium.
 - Returns Premium.