

Name: _____

Roll Number: _____

- a. Each Question is worth 1.5 points
- b. Please circle the right answer. Each question has **ONLY ONE** right answer.
- c. **Negative marking for wrong answer: -0.3**
- d. **Correct Answers in bold.**

Answer the following questions:

1. Consider a discount bond with one period maturity having Price P , YTM i and Face value F , and a perpetuity having YTM i_C , coupon payments C and price P_C . If they have the same YTM and the same price, their YTM is
 - a. $i = i_C = \frac{C}{F+C}$
 - b. $i = i_C = \frac{F}{F+C}$
 - c. $i = i_C = \frac{F-C}{C}$
 - d. **None of the above.**

It is $\frac{C}{F-C}$
2. Rise in expected inflation leads to leads to

Find r

- a. Rise in equilibrium demand and supply of bonds
 - b. Fall in equilibrium demand and supply of bonds
 - c. **Rise in supply but fall in demand of bonds**
 - d. Can't be said for sure, as it is conditional on interaction between demand and supply.
 - e. None of the above
- It is true that one cannot be sure about equilibrium, but point c does not mention equilibrium. Supply and demand can be predicted.
3. What does the liquidity preference framework say about the effect of price-level effect? To be precise, due to this effect, an increase in money supply will lead to a _____ in interest rates.
Answer is rise/increase.
 4. "Yield curves almost always slope upwards". What does expectations theory say about this?
 - a. It rejects this possibility, which is why we need Segmented markets and liquidity premium theory.
 - b. It accepts this, but rejects the fact that Interest rates on bonds of different maturities move together over time, which is why we need Segmented markets and liquidity premium theory.
 - c. **It neither accepts nor rejects this, but does not explain it, which is why we need Segmented markets and liquidity premium theory.**
 - d. None of the above. Alternate theories are needed for other reasons

5. Segmented Markets Theory treats bonds of different maturities as
 - a. Substitutes.
 - b. Complements.
 - c. **Having unrelated demand.**
 - d. Having related interest rates but unrelated demand.
 - e. None of the above

6. The system of private production and sale of information does not completely solve the adverse selection problem in securities markets because of
 - a. Misaligned incentives.
 - b. Transactions costs.
 - c. Moral Hazard.
 - d. **Free-rider problem.**
 - e. None of the above.

7. In a setting of asymmetric information, low quality goods sometimes drive high quality out of the market (even if there exists a price for which the demand and supply for that high quality good is positive). This is called
 - a. Transaction failure.
 - b. Decreasing returns to asymmetric information
 - c. Information bias
 - d. **It is called market failure.**

8. $\frac{ROE}{ROA} = 4$, Assets = \$100 million. Find equity capital.
 $\frac{ROE}{ROA}$ is the equity multiplier (EM). $EM = \frac{Assets}{Equity\ Capital}$. Therefore, Equity capital is **\$25 million.**

9. Sometimes, a firm receiving a loan must keep a required minimum amount of funds in an account at the bank. This is known as
 - a. Minimum reserve requirement.
 - b. Loan reserve requirement.
 - c. **Compensating balances.**
 - d. Basic balance requirement

10. The measurement $(Rate\ sensitive\ assets - rate\ sensitive\ liabilities) \times \Delta interest\ rates = \Delta in\ bank\ profit$. Is called.
 - a. Asset sensitivity.
 - b. Standardized gap analysis.
 - c. **Basic gap analysis.**
 - d. Asset-liability trade-off.