



- 6. Assume a bond's quoted price is 105.22 and the accrued interest is \$3.54. The bond has a par value of \$100. What is the bond's clean price?
 - (A) \$108.76.
 - (B) \$101.68.
 - (C) \$105.22.
- 7. What value would an investor place on a 20-year, \$1,000 face value, 10% annual coupon bond, if the investor required a 9% rate of return?
 - (A) \$ 879.
 - (B) \$ 920.
 - (C) \$ 1,091.
- 8. A year ago a company issued a bond with a face value of \$1,000 with an 8% coupon. Now the prevailing market yield is 10%. What happens to the bond? The bond:
 - (A) is traded at a market price higher than \$1,000.
 - (B) is traded at a market price of less than \$1,000.
 - (C) price is not affected by the change in market yield, and will continue to trade at \$1,000.
- 9. Assume a city issues a \$5 million bond to build a hockey rink. The bond pays 8% semiannual interest and will mature in 10 years. Current interest rates are 6%. What is the present value of this bond?
 - (A) \$ 5,743,874.
 - (B) \$5,000,000.
 - (C) \$3,363,478.
- 10. For an option-free bond, as the yield to maturity increases, the bond price:
 - (A) decreases at a decreasing rate.
 - (B) decreases at an increasing rate.
 - (C) increases at a decreasing rate.
- 11. Four years ago, Gamma Corporation issued a 20-year bond carrying an annualized coupon of 6% to expand its existing operations. The coupon is paid on a semiannual basis, and the bond is currently yielding 5.8%. The price of the bond per \$100 of principal is closest to:
 - (A) \$102.
 - (B) \$106.
 - (C) \$104.
- 12. A coupon bond that pays interest annually has a par value of \$1,000, matures in 5 years, and has a yield to maturity of 10%. What is the value of the bond today if the coupon rate is 12%?
 - (A) \$1,077.22.
 - (B) \$1,075.82.
 - (C) \$ 927.90.

Fixed Income

2



- (A) No, the bond is overvalued by \$ 64.
- (B) Yes, the bond is undervalued by \$ 38.
- (C) Yes, the bond is undervalued by \$ 64.
- 14. Matrix pricing is used primarily for pricing bonds that:
 - (A) differ from their benchmark bond's credit rating.
 - (B) differ from their benchmark bond's maturity.
 - (C) have low liquidity.
- 15. An investor buys a 25-year, 10% annual pay bond for \$900 and will sell the bond in 5 years when he estimates its yield will be 9%. The price for which the investor expects to sell this bond is closest to:
 - (A) \$964.
 - (B) \$1,091.
 - (C) \$1,122.
- 16. An analyst using matrix pricing will estimate the value of a bond based on:
 - (A) the issuer's cost of capital from all sources.
 - (B) yields to maturity of other bonds.
 - (C) a probability model for default risk.
- 17. To determine the full price of a corporate bond, a dealer is most likely to calculate accrued interest based on:
 - (A) 30-day months and 360-day years.
 - (B) 30-day months and 365-day years.
 - (C) Actual day counts.
- 18. What is the value of a 10-year, semi-annual, 8% coupon bond with a \$1,000 face value if similar bonds are now yielding 10%?
 - (A) \$875.38.
 - (B) \$877.11.
 - (C) \$1,135.90.
- 19. Given a required yield to maturity of 6%, what is the intrinsic value of a semi-annual pay coupon bond with an 8% coupon and 15 years remaining until maturity?
 - (A) \$1,095.
 - (B) \$1,196.
 - (C) \$1,202.

Fixed Income

Fixed-Income Bond Valuation- Prices & Yields

J.K. SHAH

a Vergoda Enterprise

- 20. Interest rates have fallen over the seven years since a \$1,000 par, 10-year bond was issued with a coupon of 7%. What is the present value of this bond if the required rate of return is currently four and one-half percent? (For simplicity, assume annual payments.)
 - (A) \$1,052.17.
 - (B) \$1,068.72.
 - (C) \$1,044.33.
- 21. A bond offers a 12% coupon paid semiannually and has 15 years left to maturity. Assuming a par value of \$1,000 and a yield to maturity of 16%, the price of the bond is closest to:
 - (A) \$775.
 - (B) \$777.
 - (C) \$776.
- 22. What is the probable change in price of a 30-year semiannual 6.5% coupon, \$1000 par value bond yielding 8% if the yield decreases to 7%?
 - (A) \$106.34.
 - (B) \$107.31.
 - (C) \$98.83.
- 23. A zero-coupon bond matures three years from today, has a par value of \$1,000 and a yield to maturity of 8.5% (assuming semi-annual compounding). What is the current value of this issue?

a Veranda Enterprise

- (A) \$779.01.
- (B) \$78.29.
- (C) \$782.91.
- 24. A 10-year, 5% bond is issued at a price to yield 5.2%. Three months after issuance, the yield on this bond has decreased by 100 basis points. The price of this bond at issuance and three months later is:
 - (A) below par at issuance, but above par three months later.
 - (B) above par at issuance, but below par three months later.
 - (C) below par at issuance, and below par three months later.

J.K. SHA

a Varanda Enterprise



- (A) discount, and the yield to maturity has decreased since purchase.
- (B) premium, and the yield to maturity has decreased since purchase.
- (C) discount, and the yield to maturity has increased since purchase.
- 26. Parsons Inc. is issuing an annual-pay bond that will pay no coupon for the first five years and then pay a 10% coupon for the remaining five years to maturity. The 10% coupon interest for the first five years will all be paid (without additional interest) at maturity. If the annual YTM on this bond is 10%, the price of the bond per \$1,000 of face value is closest to:
 - (A) \$856.
 - (B) \$778.
 - (C) \$814.
- 27. Which of the following statements regarding zero-coupon bonds and spot interest rates is most accurate?
 - (A) Price appreciation creates only some of the zero-coupon bond's return.
 - (B) A coupon bond can be viewed as a collection of zero-coupon bonds.
 - (C) Spot interest rates will never vary across time.
- 28. Consider a 10-year, 6% coupon, \$1,000 par value bond, paying annual coupons, with a 10% yield to maturity. The change in the bond price resulting from a 400 basis point increase in yield is closest to:
 - (A) \$170.
 - (B) \$480.
 - (C) \$1,160.
- 29. An investor buys a 20-year, 10% semi-annual bond for \$900. She wants to sell the bond in 6 years when she estimates yields will be 10%. What is the estimate of the future price?
 - (A) \$946.
 - (B) \$1,000.
 - (C) \$1,079.

Fixed Income

J.K. SHAH

a Veranda Enterprise



- 30. An investor gathered the following information about two 7% annual-pay, option-free bonds:
 - Bond R has 4 years to maturity and is priced to yield 6%
 - Bond S has 7 years to maturity and is priced to yield 6%
 - Both bonds have a par value of \$1,000.

Given a 50 basis point parallel upward shift in interest rates, what is the value of the two bond portfolio?

- (A) \$2,086.
- (B) \$2,030.
- (C) \$2,044.

31. Consider a \$1,000-face value, 12-year, 8%, semiannual coupon bond with a YTM of 10.45%. The change in value for a decrease in yield of 38 basis points is:

- (A) \$21.18.
- (B) \$22.76.
- (C) \$23.06.
- 32. Consider a bond that pays an annual coupon of 5% and that has three years remaining until maturity. Assume the term structure of interest rates is flat at 6%. If the term structure of interest rates does not change over the next twelve-month interval, the bond's price change (as a percentage of par) will be closest to:
 - (A) 0.00. (B) 0.84 a Veranda Enterprise
 - (B) -0.84.
 - (C) 0.84.
- 33. An investor purchased a 6-year annual interest coupon bond one year ago. The coupon rate of interest was 10% and par value was \$1,000. At the time she purchased the bond, the yield to maturity was 8%. The amount paid for this bond one year ago was:
 - (A) \$1,092.46.
 - (B) \$1,125.53.
 - (C) \$1,198.07.
- 34. A 5-year bond with a 10% coupon has a present yield to maturity of 8%. If interest rates remain constant one year from now, the price of the bond will be:
 - (A) higher.
 - (B) lower.
 - (C) the same.

Fixed Income

CFA®



| Present Value | Value in 7 Years from Today |
|----------------------|-----------------------------|
|----------------------|-----------------------------|

| (A) | 4,674,802 | 4,871,053 |
|-------------|-----------|-----------|
| (B) | 4,674,802 | 4,931,276 |
| (C) | 5,339,758 | 4,871,053 |

- 36. Austin Traynor is considering buying a \$1,000 face value, semi-annual coupon bond with a quoted price of 104.75 and accrued interest since the last coupon of \$33.50. Ignoring transaction costs, how much will the seller receive at the settlement date?
 - (A) \$1,014.00.
 - (B) \$1,047.50.
 - (C) \$1,081.00.
- 37. A bond has a yield to maturity of 7% with a periodicity of 4. The bond has a face value of \$100,000 and matures in 13 years. Each coupon payment will be \$1,800. The current price of the bond is closest to:
 - (A) \$101,672.
 - (B) \$101,698.
 - (C) \$102,768.

38. If yields do not change over the life of a zero-coupon bond, its price will least likely:

- (A) approach par value.
- (B) follow the bond's constant-yield price trajectory.
- (C) remain constant.
- 39. Georgia Corporation has \$1,000 par value bonds with 10 years remaining maturity. The bonds carry a 7.5% coupon that is paid semi-annually. If the current yield to maturity on similar bonds is 8.2%, what is the current value of the bonds?
 - (A) \$569.52.
 - (B) \$952.85.
 - (C) \$1,123.89.
- 40. A new-issue, 15-year, \$1,000 face value 6.75% semi-annual coupon bond is priced at \$1,075. Which of the following describes the bond and the relationship of the bond's market yield to the coupon?
 - (A) Premium bond, required market yield is greater than 6.75%.
 - (B) Premium bond, required market yield is less than 6.75%.
 - (C) Discount bond, required market yield is greater than 6.75%.

Fixed Income

7

J.K. SHAH

a Varanda Enterprise



- 41. The value of a 10 year zero-coupon bond with a par value of \$1,000, yielding 9.6% on a semiannual-bond basis, is closest to:
 - (A) \$410.
 - (B) \$400.
 - (C) \$390.
- 42. Today an investor purchases a \$1,000 face value, 10%, 20-year, semi-annual bond at a discount for \$900. He wants to sell the bond in 6 years when he estimates the yields will be 9%. What is the estimate of the future price?
 - (A) \$946.
 - (B) \$1,079.
 - (C) \$1,152.
- 43. A 7% callable semiannual-pay bond with a \$1,000 face value has 20 years to maturity. If the yield to maturity is 8.25% and the yield to call is 9.25% the value of the bond is closest to:
 - (A) \$797.
 - (B) \$836.
 - (C) \$879.
- 44. For a bond trading at a discount, the current yield will most likely be:
 - (A) higher than the yield to maturity.
 - (B) lower than the yield to maturity.
 - (C) the same as the yield to maturity.
- 45. In the context of bonds, accrued interest:
 - (A) covers the part of the next coupon payment not earned by seller.
 - (B) equals interest earned from the previous coupon to the sale date.
 - (C) is discounted along with other cash flows to arrive at the dirty, or full price.
- 46. An investor plans to buy a 10-year, \$1,000 par value, 8% semiannual coupon bond. If the yield to maturity of the bond is 9%, the bond's value is:
 - (A) \$1,067.95.
 - (B) \$934.96.
 - (C) \$935.82.

Fixed Income

CFA®



- 47. Consider a 10%, 10-year bond sold to yield 8%. If after one year the bond has followed its constant yield price trajectory, its price will most likely have:
 - increased. (A)
 - (B) decreased.
 - (C) remained constant.
- An investor purchases a \$1,000 5% coupon bond with guarterly coupon payments 48. that matures in 12 years and has a yield to maturity of 7.0%. The price the investor pays is closest to:
 - (A) \$838.53.
 - (B) \$839.42.
 - (C) \$841.15.
- Consider a 10%, 10-year bond sold to yield 8%. One year passes and interest rates 49. remained unchanged (8%). If after one year the bond has followed its constant yield price trajectory, its price will most likely have:
 - (A) remained constant.
 - (B) increased.
 - (C) decreased.
- 50. A \$1,000 par, semiannual-pay bond is trading for 89.14, has a coupon rate of 8.75%, and accrued interest of \$43.72. The flat price of the bond is:
 - (A) \$847.69.
 - (B) \$ 891.40.
 (C) \$ 935.12
 (C) \$ 935.12

 $\sim 1 \sim$