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- 6. Ferryville Radar Technologies has five-year, 7.5% notes outstanding that trade at a yield to maturity of 6.8%. The company's marginal tax rate is 35%. Ferryville plans to issue new five-year notes to finance an expansion. Ferryville's cost of debt capital is closest to:
 - (A) 4.9%.
 - (B) 4.4%.
 - (C) 2.4%.
- 7. Assume that a company has equal amounts of debt, common stock, and preferred stock. An increase in the corporate tax rate of a firm will cause its weighted average cost of capital (WACC) to:
 - (A) rise.
 - (B) fall.
 - (C) more information is needed.
- 8. A \$100 par, 8% preferred stock is currently selling for \$80. What is the cost of preferred equity?
 - (A) 8.0%.
 - (B) 10.0%.
 - (C) 10.8%.
- 9. A company is planning a \$50 million expansion. The expansion is to be financed by selling \$20 million in new debt and \$30 million in new common stock. The before-tax required return on debt is 9% and the required return for equity is 14%. If the company is in the 40% tax bracket, the weighted average cost of capital is closest to:
 - (A) 10.0%
 - (B) 10.6%.
 - (C) 9.0%.
- 10. An analyst gathered the following information for ABC Company, which has a target capital structure of 70% common equity and 30% debt:

Expected market return	9.00%
Risk-free rate	4.00%
Tax rate	40%
Beta	0.90
Bond yield-to-maturity	8.00%

ABC's weighted-average cost of capital is closest to:

- (A) 6.9%.
- (B) 7.4%.
- (C) 8.4%.

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- 11. A publicly traded company has a beta of 1.2, a debt/equity ratio of 1.5, ROE of 8.1 %, and a marginal tax rate of 40%. The unlevered beta for this company is closest to:
 - (A) 0.632.
 - (B) 1.071.
 - (C) 0.832.
- 12. A company has \$5 million in debt outstanding with a coupon rate of 12%. Currently the YTM on these bonds is 14%. If the tax rate is 40%, what is the after tax cost of debt?
 - (A) 5.6%.
 - (B) 7.2%.
 - (C) 8.4%.
- 13. Elenore Rice, CFA, is asked to determine the appropriate weighted average cost of capital for Samson Brick Company. Rice is provided with the following data:
 - Debt outstanding, market value \$10 million
 - Common stock outstanding, market value \$30 million

- Marginal tax rate 40%
- Cost of common equity 12%
- Cost of debt 8%

Samson has no preferred stock. Assuming Samson's ratios reflect the firm's target capital structure, Samson's weighted average cost of capital is closest to:

- (A) 10.2%.
- (B) 10.4%.
- (C) 9.8%.

14. Assume a firm uses a constant WACC to select investment projects rather than adjusting the projects for risk. If so, the firm will tend to:

- (A) accept profitable, low-risk projects and reject unprofitable, high-risk projects.
- (B) accept profitable, low-risk projects and accept unprofitable, high-risk projects.
- (C) reject profitable, low-risk projects and accept unprofitable, high-risk projects.
- 15. The most accurate way to account for flotation costs when issuing new equity to finance a project is to:
 - (A) increase the cost of equity capital by multiplying it by (1 + flotation cost).
 - (B) increase the cost of equity capital by dividing it by (1 flotation cost).
 - (C) adjust cash flows in the computation of the project NPV by the dollar amount of the flotation costs.
- 16. A firm has one actively traded bond issue outstanding, with a 6% coupon and a yield to maturity of 5%. When estimating the firm's weighted average cost of capital (WACC), the appropriate after-tax cost of debt capital should most likely be:
 - (A) less than 5%.
 - (B) equal to 6%.
 - (C) between 5% and 6%.



- 17. To finance a proposed project, Youngham Corporation would need to issue £25 million in common equity. Youngham would receive £23 million in net proceeds from the equity issuance. When analyzing the project, analysts at Youngham should:
 - (A) add the $\pounds 2$ million flotation cost to the project's initial cash outflow.
 - (B) not consider the flotation cost because it is a sunk cost.
 - (C) increase the cost of equity capital to account for the 8% flotation cost.
- 18. Which of the following is the least appropriate method for estimating a firm's before-tax cost of debt capital?
 - (A) Use the market yield on bonds with a rating and maturity similar to the firm's existing debt.
 - (B) Use the coupon rate on the firm's most recently issued debt.
 - (C) Assume the firm's cost of debt capital is equal to the yield to maturity on its publicly traded debt.

19. Given the following information about a company's capital structure:

Type of Capital	Percent of Capital Structure	Before-Tax Component Cost
Debt	40%	7.5%
Preferred	5%	11.0%
Common Stock	55%	15.0%

If the company's tax rate is 40%, its weighted average cost of capital is closestto:

(A) 10.6%.

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- (B) 13.3%.
- (C) 7.1%.
- 20. A firm is planning a \$25 million expansion project. The project will be financed with \$10 million in debt and \$15 million in equity stock (equal to the company's current capital structure). The before-tax required return on debt is 10% and 15% for equity. If the company's tax rate is 35%, what cost of capital should the firm use to determine the project's net present value?
 - (A) 12.5%.
 - (B) 9.6%.
 - (C) 11.6%.
- 21. When calculating the weighted average cost of capital (WACC) an adjustment is made for taxes because:
 - (A) interest on debt is tax deductible.
 - (B) dividends paid are taxable to the shareholder..
 - (C) dividends paid are tax deductible.
- 22. DeSoto Corp. 8% coupon bonds have a yield to maturity of 7.5%. The firm's tax rate is 30%. The after-tax cost of debt is closest to:
 - (A) 5.3%.
 - (B) 5.6%.
 - (C) 7.5%.

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- 23. Which of the following statements is most accurate regarding a firm's cost of preferred shares? A firm's cost of preferred stock is:
 - (A) the dividend yield on the firm's newly-issued preferred stock.
 - (B) the market price of the preferred shares as a percentage of its issuance price.
 - (C) approximately equal to the market price of the firm's debt as a percentage of the market price of its common shares.

24. An analyst gathered the following data about a company:

Capital Structure	Required Rate of Return
30% debt	10% for debt
20% preferred stock	11% for preferred stock
50% common stock	18% for common stock

Assuming a 40% tax rate, what is the minimum rate of return the company should require a project to generate?

- (A) 14.2%.
- (B) 10.0%.
- (C) 13.0%.
- 25. Which of the following is least likely to be useful to an analyst when estimating the cost of raising capital through the issuance of non-callable, nonconvertible preferred stock?
 - (A) The firm's corporate tax rate.
 - (B) The stated par value of the preferred issue.
 - (C) The preferred stock's dividend rate.

26. A financial analyst is estimating the effect on the cost of capital for a company of a decrease in the marginal tax rate. The company is financed with debt and common equity. A decrease in the firm's marginal tax rate would:

- (A) decrease the cost of capital because of a lower after-tax cost of debt and equity.
- (B) increase the cost of capital because of a higher after-tax cost of debt and equity.
- (C) increase the cost of capital because of a higher after-tax cost of debt.
- 27. Which of the following is least likely to be useful to an analyst who is estimating the pretax cost of a firm's fixed-rate debt?
 - (A) The coupon rate on the firm's existing debt.
 - (B) The yield to maturity of the firm's existing debt.
 - (C) Seniority and any special covenants of the firm's anticipated debt.

28. The after-tax cost of preferred stock is always:

- (A) higher than the cost of common shares.
- (B) equal to the before-tax cost of preferred stock.
- (C) less than the before-tax cost of preferred stock.



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Cost of Capital Foundational Topics