## Q-1.

#### Solution: B.

The expected return is the sum of the expected dividend yield plus expected growth. The expected growth is (1-0.5)20% = 10%. The expected dividend yield is  $1.5 \times 1.1/25 = 6.6\%$ . The sum is 16.6%.

## Q-2.

### Solution: A.

The capital asset pricing model uses the firm's equity beta, which is computed from a market model regression of the company's stock returns against market returns.

# Q-3.

#### Solution: B.

To calculate the equity beta with asset beta known, the new debt to equity ratio to GF Company should be used.

$$\beta_{equity} = \beta_{asset}^* \left[ 1 + (1 - t') \frac{D'}{E'} \right]$$

$$\beta_{equity} = 1.25 \times [1 + (1 - 40\%) \times \frac{2}{3}] = 1.75$$

## Q-4.

## Solution: B.

Asset risk does not change with a higher debt-to-equity ratio. Equity risk rises with higher debt.

## Q-5.

# Solution: C.

GF's cost of equity is  $2\% \times 1.5(8\%-2\%+3\%) = 15.5\%$ .