

CFE: Level 1
Sample Questions Set #5

The following are the sample questions that are illustrative of the questions that may be asked in a CFE Level 1 examination. These questions are only for illustration.

Note: (i) Each question carries 5 marks
(ii) In the actual exam, every wrong answer would earn -3 (negative 3) marks;
(iii) Use of Excel™ spreadsheet, even though not essential, may prove useful for answering some of the questions. No more than 20% of the total questions may require the use of Excel spreadsheet.

1. Of all the theories (disciplines) below which one is totally linear:
 - (a) Quantum Mechanics
 - (b) Evolutionary Biology
 - (c) Meteorology
 - (d) Finance

2. A trader looks at the daily chart of a stock price and finds that its shape is exactly the same as the shape of a yearly chart of that stock. He therefore concludes that:
 - (a) markets are fractal in nature
 - (b) markets follow random walk
 - (c) markets are always in equilibrium
 - (d) none of the above;

3. Rho (ρ), the sensitivity of an option to the interest rate, is proportional to \mathbf{T} , the time to maturity of an option, whereas vega (ν), the sensitivity of an option to the volatility of the asset, is proportional to the square root of \mathbf{T} ($\sqrt{\mathbf{T}}$). Therefore, in the long run:
 - (a) Volatility risks will dominate interest rate risks
 - (b) Interest rate risks will dominate volatility risks
 - (c) both volatility risk and interest rate risk will become equal
 - (d) None of the above;

4. Given the constant volatility assumption of Black-Scholes model, which of the following risk sensitivities (greeks) are inconsistent with the model assumption:
 - (a) vega
 - (b) gamma
 - (c) rho
 - (d) both (a) and (c);

5. The value of a vanilla call option on an asset is \$3.00. The value of a corresponding fixed strike (same strike as the vanilla) lookback call would be:
- (a) \$6.00
 - (b) \$1.50
 - (c) \$9.00
 - (d) \$4;50
6. VWAP (Volume Weighted Average Price)
- (a) an algorithmic trading strategy for cash equities;
 - (b) can be used to determine the structure of the trading day;
 - (c) is used for settlement of all FROs (fixed return options);
 - (d) all the above;
7. In a world of three currency pairs, Euro-Dollar, Dollar-Yen, and Euro-Yen, if the implied correlation between Euro-Dollar and Dollar-Yen remain constant and the implied volatilities of Euro-Dollar and Dollar-Yen both increase then the volatility of Euro-Yen will:
- (a) remain constant
 - (b) increase
 - (c) decrease
 - (d) cannot be computed:
8. For Asian options which of the following is a “secondary” market risk:
- (a) skew
 - (b) term structure of rates
 - (c) term structure of volatility
 - (d) variance ration
9. A Swaption has one of the following characteristics:
- (a) it is an option on a swap
 - (b) it is not decomposable into any smaller units
 - (c) it is similar to an option on a basket
 - (d) all the above
10. A smart and an experienced proprietary trader knows that:
- (a) the ratio of luck to skills decreases with transaction frequency
 - (b) the ratio of luck to skills increases with transaction frequency
 - (c) the ration of luck to skills remains the same regardless of transaction frequency;
 - (d) the ratio of luck to skills has no discernible pattern;

Notes & Explanations:

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