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Exam Code: 8002

**Exam Name:** Exam II: Mathematical Foundations of Risk Measurement

Version: DEMO

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## **QUESTION 1**

What is the simplest form of this expression: log2(165/2)

- A. 10
- B. 32
- C. 5/2 + log2(16)
- D. log2 (5/2) + log2(16)

## Answer: A

## **QUESTION 2**

For each of the following functions, indicate whether its graph is concave or convex:

Y = 7x2 + 3x + 9  $Y = 6 \ln (3x)$  $Y = \exp (-4x)$ 

- A. concave, concave, concave
- B. concave, convex, convex
- C. convex, concave, concave
- D. convex, convex, concave

## Answer: C

#### **QUESTION 3**

You invest \$100 000 for 3 years at a continuously compounded rate of 3%. At the end of 3 years, you redeem the investment. Taxes of 22% are applied at the time of redemption. What is your approximate after-tax profit from the investment, rounded to \$10?

- A. \$9420
- B. \$7350
- C. \$7230
- D. \$7100

Answer: B

#### **QUESTION 4**

You intend to invest \$100 000 for five years. Four different interest payment options are available. Choose the interest option that yields the highest return over the five year period.

- A. a lump-sum payment of \$22 500 on maturity (in five years)
- B. an annually compounded rate of 4.15%
- C. a quarterly-compounded rate of 4.1%
- D. a continuously-compounded rate of 4%

#### Answer: C

#### **QUESTION 5**

What is the 40th term in the following series: 4, 14, 30, 52, ...?

- A. 240
- B. 4598
- C. 4840
- D. 4960

Answer: C

## **QUESTION 6**

Let a, b and c be real numbers. Which of the following statements is true?

- A. The commutativity of multiplication is defined by
- B. The existence of negatives is defined by
- C. The distributivity of multiplication is defined by
- D. The associativity of multiplication is defined by

## Answer: C

QUESTION 7 Which of the following is not a sequence?

A. , , , ... , ...
B. , , , , ...
C. , , , , , , ...
D. 30

Answer: D

# **QUESTION 8**

Which of the following statements is not correct?

- A. Every linear function is also a quadratic function.
- B. A function is defined by its domain together with its action.
- C. For finite and small domains, the action of a function may be specified by a list.
- D. A function is a rule that assigns to every value x at least one value of y.

## Answer: D

## **QUESTION 9**

Which of the following statements is true?

- A. Discrete and continuous compounding produce the same results if the discount rate is positive.
- B. Continuous compounding is the better method because it results in higher present values compared to discrete compounding.
- C. Continuous compounding can be thought as making the compounding period infinitesimally small.
- D. The constant plays an important role in the mathematical description of continuous compounding.

## Answer: C

## **QUESTION 10**

Let X be a random variable normally distributed with zero mean and let . Then the correlation between X and Y is:

- A. negative
- B. zero
- C. not defined
- D. positive

#### Answer: B

## **QUESTION 11**

A typical leptokurtotic distribution can be described as a distribution that is relative to a normal distribution

- A. peaked and thin at the center and with heavy (fat) tails
- B. peaked and thin at the center and with thin tails
- C. flat and thick at the center and with heavy (fat) tails
- D. flat and thick at the center and with thin tails

## Answer: A

## **QUESTION 12**

Kurtosis(X) is defined as the fourth centred moment of X, divided by the square of the variance of

- A. Assuming X is a normally distributed variable, what is Kurtosis(X)?
- B. 0
- C. 3
- D. 2
- E. 1

## Answer: B

#### **QUESTION 13**

Over four consecutive years fund X returns 1%, 5%, -3%, 8%. What is the average growth rate of fund X over this period?

- A. 2.67%
- B. 2.75%
- C. 2.49%
- D. None of the above

## Answer: A

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