

# **Free Questions for 8002 by actualtestdumps**

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### **Question 1**

#### **Question Type:** MultipleChoice

The gradient of a smooth function is

#### **Options:**

A- a vector that shows the direction of fastest change of a function

- B- matrix of second partial derivatives of a function
- C- infinite at a maximum point
- D- a matrix containing the function's second partial derivatives

#### Answer:

А

### **Question 2**

**Question Type:** MultipleChoice

#### **Options:**

- A- is based on finding a middle point between left and right end of the search interval
- B- is based on Taylor series and uses the first derivative
- C- can be used for continuous but not differentiable functions
- D- does provide an error bound along with every iteration

#### Answer:

В

## **Question 3**

**Question Type:** MultipleChoice

What is a Hessian?

#### **Options:**

- A- Correlation matrix of market indices
- B- The vector of partial derivatives of a contingent claim
- C- A matrix of second derivatives of a function
- D- The point at which a minimum of a multidimensional function is achieved

Answer:			
С			

### **Question 4**

**Question Type:** MultipleChoice

Newton-Raphson iteration is used to find a solution of x5 - x3 + x = 1. If xn = 2, what is xn+1?

#### **Options:**

**A-** 2.362

**B-** 1.623

**C-** 1.638

**D-** 0.377

#### Answer:

С

### **Question 5**

**Question Type:** MultipleChoice

What can be said about observations of random variables that are i.i.d. a normally distributed?

#### **Options:**

- A- The estimated mean divided by the estimated variance has a t-distribution
- B- The estimated mean divided by the estimated variance has a Chi2-distribution
- C- The estimated mean divided by the estimated standard deviation has a t-distribution
- D- The estimated mean divided by the estimated standard deviation has a Chi2-distribution

С

### **Question 6**

#### **Question Type:** MultipleChoice

You are to perform a simple linear regression using the dependent variable Y and the independent variable X (Y = a + bX). Suppose that cov(X,Y)=10, var(X)=5, and that the mean of X is 1 and the mean of Y is 2. What are the values for the regression parameters a and b?

Options:			
<b>A-</b> b=0.5, a=2.5			
<b>B-</b> b=0.5, a=1.5			
<b>C-</b> b=2, a=4			
<b>D-</b> b=2, a=0			

#### Answer:

D

### **Question 7**

#### **Question Type:** MultipleChoice

Which of the following can be used to evaluate a regression model?

(i) Magnitude of R2

- (ii) Magnitude of TSS (total sum of squares)
- (iii) Tests for statistical significance

(iv) Sign and magnitude of each regression parameter

#### **Options:**

**A-** (i) and (iv)

**B-** (i), (ii), and (iii)

**C-** (i), (iii), and (iv)

**D-** (i), (ii), (iii), and (iv)

#### Answer:

С

### **Question 8**

#### **Question Type:** MultipleChoice

A 95% confidence interval for a parameter estimate can be interpreted as follows:

#### **Options:**

- A- The probability that the real value of the parameter is within this interval is 95%.
- B- The probability that the real value of the parameter is outside this interval is 95%.
- C- The probability that the estimated value of the parameter is within this interval is 95%.
- **D-** The probability that the estimated value of the parameter is outside this interval is 95%.

#### Answer:

А

### **Question 9**

In statistical hypothesis tests, 'Type I error' refers to the situation in which...

#### **Options:**

- A- The null hypothesis is accepted when in fact it should have been rejected
- B- The null hypothesis is rejected when in fact it should have been accepted
- C- Both null hypothesis and alternative hypothesis are rejected
- D- Both null hypothesis and alternative hypothesis are accepted

#### Answer: B

### **Question 10**

**Question Type:** MultipleChoice

Which of the following statements are true about Maximum Likelihood Estimation?

(i) MLE can be applied even if the error terms are not i.i.d. normal.

(ii) MLE involves integrating a likelihood function or a log-likelihood function.

(iii) MLE yields parameter estimates that are consistent.

Options:			
A- (i) and (ii)			
B- (i) only			
C- (i) and (iii)			
D- (i), (ii), and (iii)			

#### **Answer:**

С

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