

# SOLUZIONI TEST CISIA INGEGNERIA 2006

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### **Soluzioni Test CISIA Ingegneria 2006**

Il test di ammissione CISIA (Consorzio Interuniversitario Sistemi Integrati per l'Accesso) per Ingegneria del 2006 prevedeva un numero di domande in forma scritta. Di seguito, sono riportate alcune domande con le rispettive soluzioni:

#### **Domanda 1:**

Calcolare l'area del triangolo avente vertici in A(2, 3), B(4, 5) e C(1, 1).

#### **Risposta:**

L'area di un triangolo è data da:  $\text{Area} = (1/2) \text{ base } \text{altezza}$

In questo caso, la base è  $|AB| = 2$  e l'altezza è  $|CP| = 2$ , dove P è il punto medio di AB. Pertanto, l'area del triangolo è:

$$\text{Area} = (1/2) \cdot 2 \cdot 2 = 2 \text{ unità quadrate}$$

#### **Domanda 2:**

Determinare il limite della funzione per x che tende a infinito:

$$f(x) = (x^2 + 3x - 4) / (2x^2 - 5x + 3)$$

#### **Risposta:**

Dividendo sia il numeratore che il denominatore per  $x^2$ , si ottiene:

$$f(x) = (x^2 + 3x - 4) / (2x^2 - 5x + 3) = ((x^2/x^2) + (3x/x^2) - (4/x^2)) / ((2x^2/x^2) - (5x/x^2) + (3/x^2))$$

Poiché  $x$  tende a infinito, i termini  $x^2/x^2$ ,  $3x/x^2$  e  $4/x^2$  diventano tutti 0. Pertanto, il limite della funzione è:

$$\lim_{x \rightarrow \infty} f(x) = \lim_{x \rightarrow \infty} (1/2) = 1/2$$

### Domanda 3:

Determinare l'equazione della retta passante per i punti A(2, 3) e B(4, 5).

### Risposta:

L'equazione della retta passante per due punti  $(x_1, y_1)$  e  $(x_2, y_2)$  è:

$$y - y_1 = (y_2 - y_1) / (x_2 - x_1) * (x - x_1)$$

Sostituendo i valori dei punti A e B, si ottiene:

$$y - 3 = (5 - 3) / (4 - 2) (x - 2) \quad y - 3 = 1 (x - 2) \quad y = x - 1$$

Pertanto, l'equazione della retta è  $y = x - 1$ .

### Domanda 4:

Calcolare l'integrale della funzione:

$$\int (x^2 + 2x - 3) dx$$

### Risposta:

L'integrale di  $x^2 + 2x - 3$  è:

$$\int (x^2 + 2x - 3) dx = (x^3/3) + x^2 - 3x + C$$

dove  $C$  è la costante di integrazione.

### Domanda 5:

Determinare la derivata della funzione:

$$f(x) = \sin(2x)$$

**Risposta:**

La derivata della funzione  $\sin(2x)$  è:

$$f'(x) = \frac{d}{dx} \sin(2x) = 2 * \cos(2x)$$

**Self-Assessment in Clinical Laboratory Science, 3rd Edition**

The third edition of Self-Assessment in Clinical Laboratory Science is a comprehensive review tool for clinical laboratory professionals. It contains over 1,500 multiple-choice questions covering all aspects of the field, including hematology, chemistry, microbiology, immunology, and laboratory management.

**Questions and Answers**

1. **Question:** What is the principle of the Gram stain? **Answer:** Gram-positive bacteria retain the crystal violet dye, while Gram-negative bacteria do not.
2. **Question:** What is the normal range for hemoglobin in adult males? **Answer:** 13.5-18.0 g/dL
3. **Question:** Which organism is the most common cause of urinary tract infections? **Answer:** *Escherichia coli*
4. **Question:** What is the sensitivity of a laboratory test? **Answer:** The ability of a test to correctly identify true positives.
5. **Question:** What is the significance of quality control in clinical laboratory science? **Answer:** Quality control ensures the accuracy and reliability of laboratory test results.

**The Tempest: A Case Study in Critical Controversy**

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**Introduction**

William Shakespeare's "The Tempest" has been a source of debate and controversy for centuries. Its complex themes and characters have invited numerous interpretations, leading to a wide range of critical perspectives. This article will examine the controversy surrounding "The Tempest" by exploring key questions raised by critics.

### **Question 1: Colonialism and Race**

One of the central controversies in "The Tempest" is its portrayal of colonialism and race. The play depicts the encounter between Europeans and indigenous peoples on a remote island, raising questions about power dynamics, cultural differences, and the morality of imperialism. Critics have argued whether the play endorses or critiques colonialism, with some suggesting it reflects the prevailing attitudes of Shakespeare's time, while others view it as a subversive exploration of oppression.

### **Question 2: Gender and Female Agency**

Another area of debate is the play's treatment of gender. The female characters, particularly Miranda and Ariel, have been interpreted in various ways. Miranda is seen as both an innocent victim of her father's isolation and a symbol of female independence. Ariel, on the other hand, is a complex figure who represents both freedom and servitude. Critics have questioned the extent to which these characters are empowered or marginalized within the play's gender hierarchy.

### **Question 3: Magic and the Supernatural**

"The Tempest" is known for its use of magic and the supernatural. The character of Prospero, the powerful sorcerer, has been both praised and condemned. Some critics argue that the play's magic is a source of wonder and enchantment, while others see it as a symbol of manipulation and control. The question of whether the magic is real or an illusion has also been a topic of debate.

### **Question 4: Identity and Transformation**

The play explores themes of identity and transformation. The characters undergo significant changes throughout the story, as they confront their pasts and embrace new roles. Critics have analyzed how these transformations relate to the play's

themes of forgiveness, reconciliation, and the search for a stable self.

### **Question 5: Multiple Perspectives**

Finally, "The Tempest" has been praised for its multiple perspectives and its ability to accommodate different interpretations. Critics have noted that the play does not offer a single, definitive message, but rather encourages readers and audiences to form their own conclusions. This fluidity has made the play adaptable to various contexts and performances, allowing it to remain relevant and meaningful centuries after its creation.

### **Staying Alive in Avalanche Terrain**

Avalanches are a serious hazard in mountainous regions, claiming numerous lives each year. Understanding how to navigate avalanche terrain safely is crucial for anyone venturing into these areas. Here are some key questions and answers to help you stay alive:

**1. What is an avalanche?** An avalanche is a rapid, destructive slide of snow down a slope. They occur when the weight of the snow becomes too much for the underlying layers to support. Avalanches can vary in size, from small slides to massive flows that can destroy entire buildings.

**2. What causes avalanches?** Avalanches can be triggered by various factors, including:

- Heavy snowfall
- Strong winds
- Earthquakes
- Human activity (e.g., skiing, snowmobiling)

**3. How can I avoid avalanche terrain?** The best way to avoid avalanches is to stay out of avalanche-prone areas. Before heading into the mountains, check avalanche bulletins and consult with local experts to determine if the area is safe for travel.

**4. What should I do if I'm caught in an avalanche?** If you are caught in an avalanche, it is essential to:

- Stay calm and try to remain on the surface
- Swim or paddle with your arms and legs
- If you are buried, leave an air pocket around your head and tunnel towards the surface

**5. What equipment should I carry while traveling in avalanche terrain?** When traveling in avalanche terrain, it is crucial to carry essential safety equipment, including:

- Avalanche transceiver
- Avalanche shovel
- Avalanche probe
- Whistle
- First aid kit
- Emergency bivouac shelter

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