

# Certification Exams

## CLEP-Science-and-Mathematics

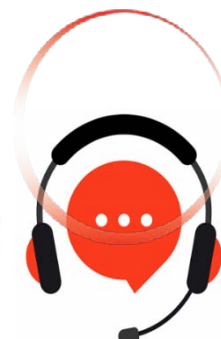
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## Question: 1

Two organisms that are classified in the same family would not necessarily be classified in the same  
Biology

- A. kingdom
- B. order
- C. phylum
- D. class
- E. genus

**Answer: E**

Explanation:

Because a "family" is more highly classified than kingdom, phylum, class, and order, organisms that share

the same family must also share the same kingdom, phylum, class, and order. Only the genus of the two organisms may differ.

## Question: 2

Let  $a$ ,  $b$ , and  $c$  be 3 distinct positive numbers. What can be said about the difference between the mean and the median of the three numbers?

Mathematics

It is always positive or zero

It is less than one-third of the difference between the largest and smallest of the numbers

It is always negative or zero.

none of the above.

**Answer: B**

## Question: 3

Which organ is involved in filtering waste from the body?

Natural Sciences

- A. Heart
- B. Lungs
- C. Kidneys
- D. Pancreas
- E. Liver

**Answer: C**

Explanation:

Blood is filtered through the kidneys and nitrogenous wastes are removed

### Question: 4

Which of the following is an example of natural selection?

Natural Sciences

- A. Son having the same blood type as his mother
- B. The development of pesticide-resistant bacteria
- C. Father and son developing large muscles from weight lifting
- D. Daughter does not inherit gene for cancer
- E. Children of two parents are shorter than the parents

**Answer: B**

Explanation:

Bacteria inheriting characteristics that allow them to survive and more effectively reproduce is an example of natural selection.

### Question: 5

Forms ions with +1 charge in solution

Chemistry

- A. Na
- B. Zn
- C. Hg
- D. N
- E. He

**Answer: A**

Explanation:

Sodium forms +1 ions in solution, for example NaCl and NaOH.

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