Science Bowl Questions Lightning

1. Short Answer Math:

What is 5! (5 factorial)?

Answer) 120

1. Short Answer Math:  
   What is the 5th row of Pascal’s Triangle?

Answer) 1 5 10 10 5 1

1. Short Answer Math:

In a right triangle, if the hypotenuse was 5, and one leg was 4, what would be the length of the other leg?

Answer) 3

1. Multiple Choice Math:  
   If the degree of an positive equation were even, which way would the graph of it point towards?  
    A. Down

B. Up

C. Left

D. 2 ways

Answer) B: Up

1. Short Answer Math:  
   What is the natural log of e (ln e)?  
    Answer) 1
2. Multiple Choice Biology:

What does ATP transfer chemical energy throughout cells for?  
 A. Metabolism

B. Regulation of Heat

C. Burn calories

D. Increase heat

Answer) A. Metabolism

1. Multiple Choice Biology:

How many chromosomes are in the human body?

A. 30

B. 39

C. 46

D. 58

Answer) C. 46

1. Multiple Choice Biology:

What does the liver store?

A. Energy

B. Carbohydrates

C. ADP

D. Fat

Answer) B. Carbohydrates

1. Short Answer Biology:

What 2 types of cancer are there?  
 Answer) Benign, Malignant

1. Multiple Choice Biology:

In diabetes, the body is unable to control the amount of \_\_\_\_\_\_\_?  
 A. Glucose

B. Sucrose

C. Fructose

D. Lactose

Answer) A. Glucose

1. Multiple Choice Physics:  
   Who proposed the idea that the speed and the position of a subatomic particle cannot be determined simultaneously?

A. Dalton

B. Newton

C. Schrodinger

D. Heisenberg

Answer) D. Heisenberg

1. Multiple Choice Physics:  
   In the Superconducting Super Collider, what subatomic particles are accelerated?

A. Electrons

B. Protons

C. Neutrons.

D. Deuterons

1. Short Answer Physics:  
   What 3 colors does white light consist of?  
    Answer) Red, blue, green
2. Short Answer Physics:

What is the name of the subatomic particle which is in the same class as an electron, but has a mass of over 200x more?  
 Answer) Muon

1. Multiple Choice Physics:  
   A knot is a measurement of \_\_\_?  
    A. Length

B. Temperature

C. Speed

D. Mass

Answer) C. Speed

1. Multiple Choice Earth and Space Science:

If enormous pressure develops in the core thus forcing beta decay to occur, what does the core convert into?  
 A. Protons

B. Quarks

C. Neutrons

D. Electrons

Answer) C. Neutrons

1. Short Answer Earth and Space Science:  
   What rock family does solidified lava belong to?  
    Answer) Igneous
2. Multiple Choice Earth and Space Science:  
   Which of the following is true?  
    A. Planets are the same size

B. Planets don’t orbit in the same direction

C. Planets orbit in a square formation

D. The orbit time for each planet is the same

Answer) C. Planets orbit in a square formation

1. Multiple Choice Earth and Space Science:  
   Rocks which are formed in layers are known as:  
    A. Stratified

B. Crystalline

C. Amorphous

D. Sedimentary

Answer) A. Stratified

1. Multiple Choice Earth and Space Science:  
   At what time of day does air cool the fastest?

A. Cloudy Day

B. Dawn

C. Clear Night

D. Rainy Morning

Answer) C. Clear Night

1. Short Answer Chemistry:  
   Who discovered radium and polonium?  
    Answer) Marie Curie
2. Short Answer Chemistry:  
   What is the formula for Sodium Nitrate?

Answer) NaNO3

1. Multiple Choice Chemistry:  
   In the Lewis Dot Structure for Chlorine, how many dots are there?  
    A. 4

B. 5

C. 6

D. 7

Answer) D.7

1. Short Answer Chemistry:

How many milligrams are in a carat?  
 Answer) 200 Milligrams

1. Multiple Choice Chemistry:   
   Which of these is an alkali earth metal?  
    A. Barium

B. Sodium

C. Potassium

D. Scandium

Answer)