Science Bowl Questions

Earth &Space Science *short answer:* What planet contains the most moons?

Answer: Saturn

Earth &Space Science *multiple choice*: Which of the following atmospheres is the second from the bottom?

w) Stratosphere

x) Troposphere

y) Thermosphere

z) Mesosphere

Answer: Stratosphere

Earth &Space Science *multiple choice* : What of the following rocks is an igneous rock?

w) Oolite

x) Slate

y) Gossan

z) Latite

Answer: z) Latite

Earth &Space Science *multiple choice*: Earth is made up of what percentage of water?

w) about 50%

x) about 75%

y) about 60%

z) about 90%

answer: x) about 75%

Earth &Space Science *short answer*: what scale is commonly referred to determine a rock’s hardness?

Answer: Moh’s Hardness Scale

Math *short answer*: What is the value of x if the equation log[base 3][x]= -4?

Answer: x= 1/81

Math *multiple choice*: Which of the following defines a triangle with 2 equal sides?

w) scalene

x) isosceles

y) obtuse

z) right

Answer: x) isosceles

Math *short answer*: Which of the following terms is defined as a triangular array of the binomial coefficients in a triangle?

Answer: Pascal’s Triangle

Math s*hort answer*: What is the slope of the equation, 3x+5y=45?

Answer: - 3/5

Math *multiple choice*: Natural log equation, lne^5 is equal to which of the followings?

w) 10

x) 7

y) 5

z) 2.5

Answer: y) 5

Physics *short answer*: what term is defined as a wave that vibrates at right angles to the direction of its propagation?

Answer: Transverse Wave

Physics *multiple choice*: Which of the following terms is used to measure the difficulty of stopping a moving body or system?

w) velocity

x) momentum

y) force

z) inertia

Answer: x) momentum

Physics *short answer*: Laws made from scientist, Isaac Newton, are known as what?

Answer: Newton’s Laws of Motion

Physics *multiple choice*: Which of the following instruments is used for detecting and measuring small electric currents?

w) galvanometer

x) ammeter

y) potentiometer

z) wattmeter

Answer: galvanometer

Physics *short answer*: What term is defined as an object’s ability to do work due to its position?

Answer: Potential Energy

Biology *multiple choice* Which of the following terms is where proteins are made?

w) ribosomes

x) cytoplasm

y) vacuole

z) mitochondria

Answer: w) ribosomes

Biology *multiple choice* Which of the following is the last stage of mitosis?

w) Grow Phase

x) metaphase

y) Cytokinasis

z) Finaphase

Answer: y) Finaphase

Biology short answer Which system in the human body deals with the release of bodily fluids?

Answer: Urinary System

Biology *multiple choice* Which of the following is something an animal and plant cell both have?

w) cell wall

x) large, centered vacuole

y) chloroplasts

z) mitochondria

Answer: z) mitochondria

Biology *short answer* Who is considered as the father of biology?

Answer: Aristotle

Biology *short answer* Which of the following best defines an organelle?

w) a structure that carries out specific activities in a cell

x) an extensive system of internal membranes that move proteins and other substances through the cell

y) a set of flattened, membrane bound sacs that serve as the packaging and distribution center of the cell

z) cellular structures in which proteins are made

Answer: w) a structure that carries out specific activities in a cell

Chemistry *short answer* What are the names of the bottom two series of the periodic table?

Answer: Lanthanides and Actinides

Chemistry *multiple choice* The element chromium is represented by what symbol?

w) Cd

x) Ch

y) Cr

z) Co

Answer: y) Cr

Chemistry *short answer* What term best defines the process in which a substance rapidly combines with oxygen, producing heat or light?

Answer: Combustion

Chemistry *multiple choice* Which of the following terms best describes coffee?

w) homogeneous mixture

x) heterogeneous mixture

y) compound

z) homogeneous solution

Answer: homogeneous mixture

Chemistry *multiple choice* Which of the following is a property that non-metals do share?

w) not lustrous

x) mainly gases at room temperature

y) bond with polyatomic ions

z) bond with other nonmetals

Answer: y) bond with polyatomic ions