Lightning Round

Multiple Choice, Biology: From where do human corneas get nutrients?

W: Blood Vessels

X: Aqueous Humour

Y: Pulmonary Circulation

Z: Systematic Circulation

Answer: X

Multiple Choice, Earth and Space Science: In what direction does Triton travel relative to Neptune’s rotation and relative to distance from Neptune?

W: Same direction as Neptune’s rotation and getting closer to Neptune

X: Same direction as Neptune’s rotation and getting farther from Neptune

Y: Opposite direction as Neptune’s rotation and getting closer to Neptune

Z: Opposite direction as Neptune’s rotation and getting farther from Neptune

Answer: Y

Multiple Choice, Earth and Space Science: What cases small depressions on iron meteorites during its descent through the atmosphere?

W: Ablation

X: Carbonaceous Chondrition

Y: High Velocity

Z: Hydrogen Envelope

Answer: W

Multiple Choice, Chemistry: At what pressure is water’s boiling point 100 C?

W: 640 torr

X: 760 torr

Y: 880 torr

Z: 1000 torr

Answer: X

Multiple Choice, Earth and Space Science: Where does the hydrogen in the hydrogen envelopes of comets come from?

W: Ice from the comet broken apart by ultraviolet rays

X: released hydrogen from nebula

Y: hydrogen from stars

Z: Hydrogen from planets

Answer: W

Multiple Choice, Earth and Space Science: What is the largest star ever discovered?

W: Betelgeuse

X: VV Cephei

Y: Mu Cephei

Z: VY Canis Majoris

Answer: Z

Short Answer, Chemistry: What is the solution in which the PH resists change when small amounts of strong acids or bases are added?

Answer: Buffer

Multiple Choice, Chemistry: What law says that “For a fixed amount of gas at constant temperature, volume is inversely proportional to pressure”?

W: Boyle’s Law

X: Charles’s Law

Y: Avogadro’s Law

Z: Ideal Gas Law

Answer: W

Multiple Choice, Chemistry: What is a measure of a cell reaction to force electrons through a circuit?

W: Electronegativity

X: Electrochemical Potential

Y: Cell Potential

Z: Electrolyte charge

Answer: Y

Multiple Choice, Earth and Space Science: If the stars in a binary system are too close together so that a telescope reveals only a single point of light, it is known as a   
W : visual binary  
X : non-visual binary  
Y : spectroscopic binary  
Z : X-ray binary  
Answer : Y

Multiple Choice, Earth and Space Science: What percent of the universe is dark energy?  
W : 50  
X : 60  
Y : 70  
Z : 80  
Answer : Y

Multiple Choice, Earth and Space Science: Glaciers occupy what percent on the world’s land?  
W : 5 %  
X : 10 %  
Y : 15 %  
Z : 20 %  
Answer : X

Short Answer, Earth and Space Science : What gas are the clouds in Venus made of?  
  
Answer : Sulfuric acid  
  
Multiple Choice, Earth and Space Science: How many years did it take the space probe Voyager 2 to reach Neptune?  
W: 6 years

X: 12 years

Y: 18 years

Z: 24 years  
Answer : X

Multiple Choice, Earth and Space Science: How many rotations do neutron stars make in 1 second?  
W : 400  
X : 500  
Y : 600  
Z : 700  
  
Answer : X

Multiple Choice, Earth and Space Science: How long does it take for Mercury to orbit the sun in Earth days?  
W : 35  
X : 56  
Y : 88  
Z : 94  
  
Answer : Y

Multiple Choice, Earth and Space Science: How many percent of stars in the Orion Nebula are surrounded by disks of gas and dust?  
W : 65%  
X : 75%  
Y : 85%  
Z : 95%  
  
Answer : Y

Multiple Choice, Earth and Space Science: What is the gas in the supernova called, which is electromagnetic radiated by high-speed electrons spiraling through a magnetic field?  
W : supernova remnant  
X : synchrotron radiation  
Y : nebula radiation  
Z : protostar remnant  
  
Answer : X