TOSS-UP

1. GENERAL; Multiple Choice: What does a crescograph measure?

(W) the amount of water in soil

(X) the depth and height of a wave

(Y) the rate of growth of a plant

(Z) the loudness of a sound

ANSWER: Y – THE RATE OF GROWTH OF PLANT

BONUS

1. GENERAL; Short Answer: How many time zones are there on Earth?

ANSWER: 24

TOSS-UP

1. GENERAL; Multiple Choice: With what is the autoclave designed to be sterilized?

(W) dessication

(X) helium gas

(Y) steam and pressure

(Z) methane gas

ANSWER: Y – STEAM AND PRESSURE

BONUS

1. GENERAL; Short Answer: What is the Paleothilic Age also known as?

ANSWER: STONE AGE

TOSS-UP

1. GENERAL; Multiple Choice: How much data can a normal CD-ROM hold?

(W) 650 MB

(X) 700 MB

(Y) 750 MB

(Z) 800 MB

ANSWER: W – 650

BONUS

3. GENERAL; Short Answer: What does a cryometer measure?

ANSWER: low temperatures

TOSS-UP

1. GENERAL; Multiple Choice: Which layer of the atmosphere is the coldest layer?

(W) Troposphere

(X) Mesosphere

(Y) Thermosphere

(Z) Stratosphere

ANSWER: X – Mesosphere

BONUS

4. GENERAL; Short Answer: What lab equipment is used specifically to heat small quantities to very high temperatures?

ANSWER: CRUCIBLE

TOSS-UP

1. GENERAL; Multiple Choice: Which type of cells of the bone maintains bone as a healthy living tissue?

(W) Osteocyte

(X) Lacunae

(Y) Osteoblast

(Z) Lamellae

ANSWER: W – OSTEOCYTE

BONUS

5. GENERAL; Short Answer: What is the circular muscle around the eye called?

ANSWER: ORBICULARIS OCULI

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TOSS-UP

1. GENERAL; Multiple Choice: Which of the following is an ingredient to thunderstorms?

(W) High pressure overhead

(X) Strong winds moving in different directions at different heights

(Y) Very strong solar flares

(Z) Cold, dry air

ANSWER: X – STRONG WINDS MOVING IN DIFFERENT DIRECTIONS AT DIFFERENT HEIGHTS

BONUS

6. GENERAL; Short Answer: What is the narrowing of the spinal column called?

ANSWER: SPINAL STENOSIS

TOSS-UP

1. GENERAL; Multiple Choice: Which of the following organisms is tolerant to pollution?

(W) Mayfly Nymph

(X) Crane Fly Larvae

(Y) Gilled Snails

(Z) Blood Midge

ANSWER: Z – BLOOD MIDGE

BONUS

7. GENERAL; Short Answer: Which muscle originates from the sternum and inserts into the clavicle and mandible?

ANSWER: STERNOCLEDIMASTOID

TOSS-UP

1. GENERAL; Multiple Choice: What is an empirical conclusion based on?

W) Intuition

(X) Extrapolating from specific to general

(Y) Experimentation and observation

(Z) Theorems and laws

ANSWER: Y – EXPERIMENTATION AND OBSERVATION

BONUS

8. GENERAL; Short Answer: The physical property used in mineral identification for the way the mineral’s surface reflects a light is called…

ANSWER: LUSTER

TOSS-UP

1. GENERAL; Multiple Choice: Which one of the following gases is not one of the three major gases by volume that make up the air?

(W) Argon

(X) Nitrogen

(Y) Oxygen

(Z) Helium

ANSWER: Z – HELIUM

BONUS

9. GENERAL; Short Answer: Which atmospheric layer starts at around 16 kilometers from the surface of the Earth?

ANSWER: STRATOSPHERE

TOSS-UP

1. GENERAL; Multiple Choice: What percentage of the world’s ice is Antarctica?

(W) 80%

(X) 85%

(Y) 90%

(Z) 95 %

ANSWER: Y – 95%

BONUS

1. GENERAL; Short Answer: What is the term for fan-shaped deposits of sediment on dry land?

ANSWER: ALLUVIAL FAN

TOSS-UP

1. GENERAL; Multiple Choice: Which of the following correctly describes STP?

(W) 0 °C at 1 atm

(X) 1°C at 0 atm

(Y) 0 °C at 1 atm

(Z) 1 °C at 1 atm

ANSWER: W – 0 °C AT 1 ATM

BONUS

11. GENERAL; Short Answer: The global address of resources on the world wide web is called…

ANSWER: URL

TOSS-UP

1. GENERAL; Multiple Choice: What is the function of the extensor digitorum?

(W) adducts fingers

(X) extends wrist

(Y) extends fingers

(Z) adducts thumb

ANSWER: Y – EXTENDS FINGERS

BONUS

12. GENERAL; Short Answer: What does the acronym “URL” stand for?

ANSWER: UNIFORM RESOURCE LOCATOR

TOSS-UP

1. GENERAL; Multiple Choice: Which of the following is the largest inland body of water on Earth?

(W) Lake Michigan

(X) Lake Tahoe

(Y) Black Sea

(Z) Caspian Sea

ANSWER: Z – CASPIAN SEA

BONUS

13. GENERAL; Short Answer: Who was the first man to orbit the Earth from outer space?

ANSWER: YURI GAGARIN

TOSS-UP

1. GENERAL; Multiple Choice: Which of the following is the deepest lake in the world?

(W) Lake Tahoe

(X) Lake Baikal

(Y) Lake Victoria

(Z) Crater Lake

ANSWER: X – LAKE BAIKAL

BONUS

14. GENERAL; Short Answer: Which physicist discovered that a wave’s frequency changes when the source and the observer are in motion relative to one another?

ANSWER: CHRISTIAN DOPPLER

TOSS-UP

1. GENERAL; Multiple Choice: What year was the ENIAC computer turned on for the first time?

(W) 1946

(X) 1943

(Y) 1949

(Z) 1941

ANSWER: W – 1946

BONUS

15. GENERAL; Short Answer: What does the acronym ENIAC stand for?

ANSWER: ELECTRICAL NUMERICAL INTEGRATOR AND CALCULATOR

TOSS-UP

1. GENERAL; Multiple Choice: In which of the following is the average speed of blood the slowest?

(W) Small Veins

(X) Arteries

(Y) Capillaries

(Z) Large Veins

ANSWER: CAPILLARIES

BONUS

16. GENERAL; Short Answer: What rural state provides WiFi for all residents, making it the most wired city in America?

ANSWER: NEVADA

TOSS-UP

1. GENERAL; Short Answer: What does ISP stand for, to a web-surfer?

ANSWER: INTERNET SERVICE PROVIDER

BONUS

17. GENERAL; Short Answer: What is the hardest substance in the human body?

ANSWER: TOOTH ENAMEL

TOSS –UP

1. GENERAL; Short Answer: What is pollination by birds called?

ANSWER: ORNITHOPHILY

BONUS

18. GENERAL; Short Answer: Which sea is the saltiest sea on Earth?

ANSWER: DEAD SEA

TOSS-UP

1. GENERAL; Multiple Choice: Which naturalist declared that evolution took place over millions of years and that the primary mechanism for evolution is natural selection?

(W) Rachel Carson

(X) Jacques Costeau

(Y) Marlin Perkins

(Z) Charles Darwin

ANSWER: Z – CHARLES DARWIN

BONUS

19. GENERAL; Short Answer: What does the prefix “zepto” mean?

ANSWER: ONE SEXTILLIONTH (ALSO ACCEPT: 10-21)

TOSS-UP

1. GENERAL; Short Answer: What is the name for the warm ocean current that develops after late December along the coast of Ecuador and Peru, known to cause catastrophic weather conditions?

ANSWER: EL NIÑO

BONUS

20. GENERAL; Short Answer: The word “atom” is derived from a word from what language, meaning “indivisible”?

ANSWER: GREEK

TOSS-UP

1. GENERAL; Multiple Choice: What is the world’s largest invertebrate animal?

(W) Tarantula

(X) Octopus

(Y) Giant Squid

(Z) Sea Urchin

ANSWER: Y – GIANT SQUID

BONUS

21. GENERAL; Short Answer: What is the word meaning “pollination by wind”?

ANSWER: ANEMOPHILY

TOSS-UP

1. GENERAL; Multiple Choice: What is acarology?

(W) Study of airborne organisms

(X) Study of mites

(Y) Study of grasses

(Z) Study of precious metals

ANSWER: X – STUDY OF MITES

BONUS

22. GENERAL; Short Answer: What word means “the study of ulcers”?

ANSWER: HELCOLOGY

TOSS-UP

1. GENERAL; Short Answer: Which state in the United States contains the most amount of windmills?

ANSWER: TEXAS

BONUS

23. GENERAL; Short Answer: In which month is the Earth closest to the Sun?

ANSWER: JANUARY

TOSS-UP

1. GENERAL; Multiple Choice: What is the point where the Earth is closest to the Sun called?

(W) Perihelion

(X) Aphelion

(Y) Perigee

(Z) Apogee

ANSWER: W – PERIHELION

BONUS

24. GENERAL; Short Answer: What do scientists call the point where a heavenly body or an object in outer space is the farthest from the Earth?

ANSWER: APOGEE

TOSS-UP

1. GENERAL; Short Answer: What is the coefficient of kinetic friction of synovial joints?

(W) 0.3

(X) 0.03

(Y) 0.003

(Z) 0.0003

ANSWER: Y – 0.003

BONUS

1. GENERAL; Short Answer: A thermocouple measures

ANSWER: TEMPERATURE