Akshay Sethi

TOSS-UP

1. General Science; Multiple Choice: Most Fossil Fuels used today have been formed in what time period?

(W) 350 million to 50 million years ago

(X) 50 million to 25 million years ago

(Y) 100 million to 50 million years ago

(Z) 5 million to 10 million years ago

ANSWER: W-350 million to 50 million years ago

BONUS

1. General Science; Multiple Choice: Which plant has been investigated as a source of petroleum?

(W) Monkey Ball Tree

(X) Redwood Tree

(Y) Gopher Plant

(Z) Venus Flytrap

ANSWER: Y-Gopher Plant

TOSS-UP

2. General Science; Multiple Choice: Who was the founder of cybernetics?

(W) Dennis Gabor

(X) Albert Einstein

(Y) Emmet Leith

(Z) Norbert Weiner

ANSWER: Z- Norbert Weiner

BONUS

2. General Science; Multiple Choice: Cybernetics is currently used to examine the behavior of what field?

(W) Sociology

(X) Biology

(Y) Engineering

(Z) Psychology

ANSWER: W-Sociology

TOSS-UP

3. General Science; Multiple Choice: What is a perfect number?

(W) A number that can be represented by a roman numeral

(X) A number which is prime and a perfect square

(Y) A number used in the Fibonacci sequence

(Z) A number that is equal to the sum of all its divisors

ANSWER: Z- A number that is equal to the sum of all its divisors

BONUS

3. General Science; Multiple Choice: Which of the following is a part of the Fibonacci Sequence?

(W) 35

(X) 55

(Y) 75

(Z) 87

ANSWER: X-55

TOSS-UP

4. General Science; Short Answer: The element helium is named after which Greek god?

ANSWER: Helios

BONUS

4. General Science; Multiple Choice: In 1868, Helium was discovered by which scientist?

(W) Norman Lockyer

(X) John Dalton

(Y) Christian R. S. Hahnmann

(Z) Daniel Palmer

ANSWER: W- Norman Lockyer

TOSS-UP

5. General Science; Multiple Choice: Who is regarded as the founder of modern medicine?

(W) Louis Pasteur

(X) Hippocrates

(Y) Elijah Blackwell

(Z) Thomas Syndenham

ANSWER: Z- Thomas Syndenham

BONUS

5. General Science; Multiple Choice: The first blood bank opened in what city in 1938?

(W) London

(X) New York City

(Y) Moscow

(Z) San Francisco

ANSWER: X-San Francisco

TOSS-UP

6. General Science; Multiple Choice: Approximately how many acres of tropical rainforest are cut down annually?

(W) 10 million hectares

(X) 15 million hectares

(Y) 25 million hectares

(Z) 50 million hectares

ANSWER: X- 15 million hectares

BONUS

6. General Science; Short Answer: What causes the most forest fires in the western United States?

ANSWER: Lightning

TOSS-UP

7. General Science; Multiple Choice: The active ingredient in marijuana, or THC, is more commonly known as:

(W) tetrahydrocannabinol

(X) triglycerhydrylcavol

(Y) tetrahydroxyl acetone

(Z) tipulatihydracollogen

ANSWER: W- tetrahydrocannabinol

BONUS

7. General Science; Multiple Choice: Factor VIII is one of the enzymes involved in what bodily function?

(W) Digestion of food

(X) Blood Clotting

(Y) Dissolving Hydrogen Peroxide to Water and Oxygen

(Z) Converting Carbohydrates to Fats

ANSWER: X-Blood Clotting

TOSS-UP

8. General Science; Multiple Choice: Who is regarded as being responsible for the creation of the radio?

(W) Edward Langdon

(X) Howard Hughes

(Y) Lee de Forest

(Z) Guglielmo Marconi

ANSWER: Z- Guglielmo Marconi

BONUS

8. General Science; Multiple Choice: What was the name of the first commercial satellite used in the United States?

(W) ECHO 1

(X) *Early Bird*

(Y) RELAY Alpha

(Z) Telstar 1

ANSWER: W-ECHO 1

TOSS-UP

9. General Science; Multiple Choice: Which of the following types of microscopes do not exist?

(W) Dissection Microscope

(X) Scanning Electron Microscope

(Y) Reception Electron Microscope

(Z) Compound Microscope

ANSWER: Y- Reception Electron Microscope

BONUS

9. General Science; Multiple Choice: Who invented the compound microscope?

(W) Hans Janssen

(X) Robert Koch

(Y) Christian Oerstead

(Z) Alfred Hodgkin

ANSWER: W- Hans Janssen

TOSS-UP

10. General Science; Short Answer: Who is regarded as the inventor of the periodic table?

ANSWER: Dmitri Mendeleev

BONUS

10. General Science; Multiple Choice: What is one of the elements discovered be American chemist Glenn Seaborg?

(W) Nobelium

(X) Thorium

(Y) Gadolinium

(Z) Lutetium

ANSWER: W- Nobelium

TOSS-UP

11. General Science; Multiple Choice: The Archaean and Proterozoic periods are both part of what time period?

(W) Precambrian Era

(X) Paleozoic Era

(Y) Mesozoic Era

(Z) Cenozoic Era

ANSWER: W- Precambrian Era

BONUS

11. General Science; Multiple Choice: What genre of organism solidified from the Triassic Era?

(W) Crocodiles

(X) Seed-Bearing Plants

(Y) Vascular Plants

(Z) Coral Reefs

ANSWER: W-Crocodiles

TOSS-UP

12. General Science; Short Answer: Melvin Calvin won the Nobel Prize in 1961 for his work in what subject?

ANSWER: Chemistry

BONUS

12. General Science; Multiple Choice: Who is regarded as the founder of biochemistry?

(W) Kaspar Fredrich Wolff

(X) Henry Bates

(Y) Jan Baptista Helmont

(Z) Svante Arrhenius

ANSWER: Y- Jan Baptista Helmont

TOSS-UP

13. General Science; Multiple Choice: What is the scientific study of fungi called?

(W) mushroomology

(X) sapology

(Y) sporeology

(Z) mycology

ANSWER: Z- Mycology

BONUS

13. General Science; Multiple Choice: Who was the first to coin the word virus?

(W) Edward Jenner

(X) Robert Koch

(Y) P.T. Barnum

(Z) Claude Bernard

ANSWER: W-Edward Jenner

TOSS-UP

14. General Science; Multiple Choice: What regulates body temperature?

(W) carbonate-bicarbonate buffer system

(X) phlegem

(Y) hypothalamus

(Z) parathyroids

ANSWER: Y-hypothalamus

BONUS

14. General Science; Multiple Choice: Who coined the term homeostasis?

(W) Alexis St. Martin

(X) Walter Bradford Cannon

(Y) William Beaumont

(Z) John Oliver Joseph

ANSWER: X- Walter Bradford Cannon

TOSS-UP

15. General Science; Multiple Choice: John Muir is considered the founder of modern

(W) conservation

(X) naturalism

(Y) environmental awareness

(Z) ecology

ANSWER: W- conservation

BONUS

15. General Science; Multiple Choice: Which environmental disaster led to the creation of the environmental protection agency?

(W) Three Mile Island

(X) Love Canal

(Y) Chernobyl

(Z) Exxon Valdez Oil Spill

ANSWER: X- Love Canal

TOSS-UP

16. General Science; Multiple Choice: What is a yazoo?

(W) A plateau surrounded by a river

(X) A lake in a volcano crater

(Y) A tributary that runs parallel to a river

(Z) A water reservoir with two dams

ANSWER: Y- A tributary that runs parallel to a river

BONUS

16. General Science; Short Answer: The volume of water in the Niagara falls depends on what body of water?

ANSWER: The height of Lake Erie

TOSS-UP

17. General Science; Multiple Choice: 1 Imperial Gallon of seawater is approximately how many pounds?

(W) 10

(X) 100

(Y) 125

(Z) 200

ANSWER: W- 10

BONUS

17. General Science; Short Answer: How many standard time zones exist in the world?

ANSWER: 24

TOSS-UP

18. General Science; Multiple Choice: Who discovered the formula for the area of a triangle?

(W) Euclid

(X) Pythagoras

(Y) Blaise Pascal

(Z) Heron of Alexandria

ANSWER: Z- Heron of Alexandria

BONUS

18. General Science; Multiple Choice: Approximately how many meters are on each side of a square acre?

(W) 27

(X) 47

(Y) 64

(Z) 104

ANSWER: Y- 64

TOSS-UP

19. General Science; Multiple Choice: Petrology is the science of what?

(W) Flightless Birds

(X) Rocks

(Y) Snowflakes

(Z) Plastics

ANSWER: X- Rocks

BONUS

19. General Science; Short Answer: The study of the structure of the earth is known as

ANSWER: Structural Geology

TOSS-UP

20. General Science; Multiple Choice: The R-value of construction components represents what?

(W) Its resistance to flames

(X) Its resistance to natural weathering

(Y) Its hardness in relation to concrete

(Z) Its resistance to the flow of heat

ANSWER: Z- Its resistance to the flow of heat

BONUS

20. General Science; Multiple Choice: The STC rating of materials measures the ability to inhibit airborne sound. What does STC stand for?

(W) Sound Traversal and Collective resonance

(X) Sonar Thwartwise Cadance

(Y) Sound Transmission Class

(Z) Sound Traveling Code

ANSWER: Y- Sound Transmission Class

TOSS-UP

21. General Science; Multiple Choice: What is the approximate salt percentage of seawater?

(W) 2.5%

(X) 3.5%

(Y) 5.5%

(Z) 7.5%

ANSWER: X-3.5%

BONUS

21. General Science; Multiple Choice: The year 1816 was known as the year without a summer because of the eruption of which volcano in Indonesia?

ANSWER: Mount Tambora

TOSS-UP

22. General Science; Multiple Choice: What does the Saffir/Simpson Damage-Potential scale measure?

(W) Tornadoes

(X) Hurricanes

(Y) Tsunamis

(Z) Monsoons

ANSWER: X- Hurricanes

BONUS

22. General Science; Multiple Choice: Which organization sets the rules for the naming of hurricanes?

(W) World Meteorological Organization

(X) International Hurricane Organization

(Y) Geneva Meteorological Commission

(Z) United States Geological Survey

ANSWER: W- World Meteorological Organization

TOSS-UP

23. General Science; Short Answer: The United States National Institute of Standards and Technology uses what isotope of what element to determine the time in atomic clocks?

ANSWER: Cesium-133

BONUS

23. General Science; Short Answer: When referring to time, the initials a.m. stand for

ANSWER: *ante meridiem*

TOSS-UP

24. General Science; Multiple Choice: What did Harold Urey, F.G. Brickwedde, and G.M. Murphy discover in 1931?

ANSWER: Deuterium

BONUS

24. General Science; Multiple Choice: What is the lightest solid material or substance known to man?

(W) Silica Aerogels

(X) “Frozen Smoke”

(Y) Aromatic Foam

(Z) Aqua Regia

ANSWER: W- Silica Aerogels

TOSS-UP

25. General Science; Multiple Choice: Who developed the process for making ammonia

(W) Gregor Mendel

(X) Karl Bosch

(Y) George Perkins Marsh

(Z) Fritz Haber

ANSWER: Z- Fritz Haber

BONUS

25. General Science; Short Answer: The large molecule buckminsterfullerene is structured in the shape of a spherical object with 32 faces. What geometric structure does this make?

ANSWER: A Truncated Icosahedron