TOSS-UP

1. GEN; Multiple Choice: Which of the following is not another name for a tropical cyclone?

(W) hurricane

(X) tropical tornado

(Y) cyclonic storm

(Z) tropical depression

ANSWER: X- TROPICAL TORNADO

BONUS

1. GEN; Short Answer: What is another name for the westward-moving air currents found in the tropics near the equator?

ANSWER: TRADE WINDS

TOSS-UP

2. GEN; Multiple Choice: In what country can the Petrified Forest of Lesvos be found?

(W) Georgia

(X) Macedonia

(Y) Greece

(Z) Argentina

ANSWER: Y- GREECE

BONUS

2. GEN; Short Answer: What color indicates the presence of carbon in petrified wood?

ANSWER: BLACK

TOSS-UP

3. GEN; Short Answer: What is the name of the reproductive strategy in which an organism produces few offspring?

ANSWER: K-SELECTION

BONUS

3. GEN; Multiple Choice: What is the term for organisms that only produce once during their lifetimes?

(W) Semelparous

(X) Polyparous

(Y) Iteroparous

(Z) Monoparous

ANSWER: W- SEMELPAROUS

TOSS-UP

4. GEN; Multiple Choice: By which of the following methods do rodents control the length of their incisors?

(W) daily brushing

(X) gnawing

(Y) biting fights

(Z) they don’t

ANSWER: X- GNAWING

BONUS

4. GEN; Short Answer: What is the one habitat in which rodents do not live?

ANSWER: OCEAN

TOSS-UP

5. GEN; Short Answer: The voltage of a lightning bolt is proportional to what physical property of the bolt?

ANSWER: LENGTH

BONUS

5. GEN; Multiple Choice: What is the name of the type of lightning that is the most common cause of wildfires?

(W) staccato lightning

(X) sheet lightning

(Y) forked lightning

(Z) dry lightning

ANSWER: Z- DRY LIGHTNING

TOSS-UP

6. GEN; Multiple Choice: What is the name of the American first manned mission to land on the Moon?

(W) Apollo 10

(X) Apollo 11

(Y) Apollo 12

(Z) Apollo 13

ANSWER: X- APOLLO 11

BONUS

6. GEN; Short Answer: What is the name of the second human to walk on the Moon?

ANSWER: BUZZ ALDRIN

TOSS-UP

7. GEN; Short Answer: What is the Earth’s largest mammal?

ANSWER: BLUE WHALE

BONUS

7. GEN; Multiple Choice: Before whaling, the largest population of blue whales were found near the

(W) North Pole

(X) Indian Ocean

(Y) Antarctica

(Z) South Pacific Ocean

ANSWER: Y- ANTARCTICA

TOSS-UP

8. GEN; Multiple Choice: A term describing an earthquake’s point of initial rupture is:

(W) hypocenter

(X) endocenter

(Y) primocenter

(Z) monocenter

ANSWER: W- HYPOCENTER

BONUS

8. GEN; Short Answer: What is the name of the scale used to measure the intensity of shaking caused by an earthquake?

ANSWER: MODIFIED MERCALLI SCALE

TOSS-UP

9. GEN; Short Answer: Protozoa fall under which family of classification?

ANSWER: PROTISTA

BONUS

9. GEN; Multiple Choice: Which of the following scientists coined the term “antibiotic”?

(W) Louis Pasteur

(X) Robert Koch

(Y) Paul Ehrlich

(Z) Selman Waksman

ANSWER: Z- SELMAN WAKSMAN

TOSS-UP

10. GEN; Multiple Choice: What is the name of the deepest hypersaline lake in the world?

(W) Lake Assal

(X) Don Juan Pond

(Y) Dead Sea

(Z) McMurdo Sea

ANSWER: Y- DEAD SEA

BONUS

10. GEN; Short Answer: Which river is the main tributary of the Dead Sea?

ANSWER: JORDAN RIVER

TOSS-UP

11. GEN; Short Answer: What is the name of the bird, previously called the duck hawk in North America, that is the world’s most widespread raptor?

ANSWER: PEREGRINE FALCON

BONUS

11. GEN; Multiple Choice: In biogeography, what is the term used to describe species that can be found almost anywhere in the world?

(W) cosmopolitan distribution

(X) polymorphic habitats

(Y) polygeographic habitats

(Z) polycosmic distribution

ANSWER: W- COSMOPOLITAN DISTRIBUTION

TOSS-UP

12. GEN; Multiple Choice: Which of the following is defined as ice frozen without many air bubbles trapped inside, resulting in high transparency?

(W) sleet

(X) black ice

(Y) white ice

(Z) hail

ANSWER: X- BLACK ICE

BONUS

12. GEN; Short Answer: What is the alternative term for white ice?

ANSWER: SNOW ICE

TOSS-UP

13. GEN; Short Answer: What is the term for mammals that lay eggs?

ANSWER: MONOTREME

BONUS

13. GEN; Multiple Choice: Which of the following is not considered a venomous mammal?

(W) brown shrew

(X) platypus

(Y) European mole

(Z) Cuban solenodon

ANSWER: W- BROWN SHREW

TOSS-UP

14. GEN; Multiple Choice: Which anatomical part do bees use to extract nectar from flowers?

(W) tarsus

(X) ocelli

(Y) proboscis

(Z) gena

ANSWER: Y- PROBOSCIS

BONUS

14. GEN; Short Answer: What are the three major components of the bee’s middle leg?

ANSWER: FEMUR, TIBIA, TARSUS

TOSS-UP

15. GEN; Short Answer: What is the common name of the largest rodent?

ANSWER: CAPYBARA

BONUS

15. GEN; Multiple Choice: A capybara is classified as a graminivore, meaning that it primarily eats:

(W) tree leaves

(X) grains

(Y) pollen

(Z) grass

ANSWER: Z- GRASS

TOSS-UP

16. GEN; Multiple Choice: Helminthology is the study of

(W) metals

(X) herbs

(Y) worms

(Z) flies

ANSWER: Y- WORMS

BONUS

16. GEN; Short Answer: Earthworms belong to which phylum?

ANSWER: ANNELIDA

TOSS-UP

17. GEN; Short Answer: Mt. Fuji in Japan is an example of which type of volcano?

ANSWER: COMPOSITE VOLCANO (also accept STRATOVOLCANO)

BONUS

17. GEN; Multiple Choice: The Pacific Ring of Fire is caused by

(W) divergent tectonic plates

(X) convergent tectonic plates

(Y) sliding tectonic plates

(Z) transformed tectonic plates

ANSWER: X- CONVERGENT TECTONIC PLATES

TOSS-UP

18. GEN; Multiple Choice: Which of the following is not considered a color associated with labeling dwarf stars?

(W) yellow

(X) red

(Y) blue

(Z) purple

ANSWER: Z- PURPLE

BONUS

18. GEN; Short Answer: What term was coined by Willem Luyten in 1922 to describe degenerate dwarf stars?

ANSWER: WHITE DWARF

TOSS-UP

19. GEN; Short Answer: What are the three geologic periods that form the Mesozoic Era?

ANSWER: TRIASSIC, JURASSIC, CRETACEOUS

BONUS

19. GEN; Multiple Choice: Which of the following is not part of the Paleozoic Era?

(W) Paleonian

(X) Cambrian

(Y) Silurian

(Z) Devonian

ANSWER: W- PALEONIAN

TOSS-UP

20. GEN; Multiple Choice: Which of the following types of benthic marine algae can be used in toothpaste, cosmetics, and paints?

(W) kelp

(X) sea lettuce

(Y) lichen

(Z) seaweed

ANSWER: Z- SEAWEED

BONUS

20. GEN; Short Answer: What is the genus of the seaweed commonly eaten by humans?

ANSWER: PORPHYRA

TOSS-UP

21. GEN; Short Answer: In lead-acid batteries, what is the type of acid used?

ANSWER: SULFURIC ACID

BONUS

21. GEN; Multiple Choice: Prior to the 20th century, how was sulfuric acid manufactured?

(W) sulfate hydrolysis

(X) chamber process

(Y) contact process

(Z) sulfate distillation

ANSWER: X- CHAMBER PROCESS

TOSS-UP

22. GEN; Multiple Choice: Gunmental bronze is not made with which of the following elements?

(W) copper

(X) iron

(Y) tin

(Z) zinc

ANSWER: X- IRON

BONUS

22. GEN; Short Answer: What are the three elements that form the alloy electrum?

ANSWER: GOLD, SILVER, COPPER

TOSS-UP

23. GEN; Short Answer: What are the four main segments of a worker ant?

ANSWER: HEAD, ALITRUNK, PETIOLE, GASTER

BONUS

23. GEN; Multiple Choice: Which of the following do ants have?

(W) lungs

(X) hearts

(Y) femurs

(Z) closed blood vessels

ANSWER: Y- FEMURS

TOSS-UP

24. GEN; Multiple Choice: Kepler claimed that the orbit of every planet around the sun is

(W) an epicycle

(X) an ellipse

(Y) a circle

(Z) an oval

ANSWER: X- ELLIPSE

BONUS

24. GEN; Short Answer: What was the name formerly used to refer to Kepler’s third law?

ANSWER: HARMONIC LAW

TOSS-UP

25. GEN; Short Answer: How many hydrogen bonds can one water molecule form at most?

ANSWER: FOUR

BONUS

25. GEN; Short Answer: Hydrogen bonds can cause what two types of polypeptide primary structure?

ANSWER: ALPHA HELIX, BETA PLEATED SHEET