Saaket Agrawal

TOSS-UP QUESTION

1) GENERAL SCIENCE *Multiple Choice* How many bits are there in a single byte:

W) 6

X) 10

Y) 12

Z) 8

ANSWER: Z) 8

# BONUS QUESTION

1) GENERAL SCIENCE *Short Answer* How many bytes in a single kilobyte:

ANSWER: 8192

# TOSS-UP

2) GENERAL SCIENCE *Short Answer* Who cofounded Microsoft alongside Bill Gates Sr.?

ANSWER: Paul Allen

# BONUS

2) GENERAL SCIENCE *Short Answer* What is the name of the operating system used by Microsoft and is still used today:

ANSWER: Windows

**TOSS-UP**

3) GENERAL SCIENCE *Short Answer* What part of a computer is directly accessible by the CPU and is used to store immediately needed data:

ANSWER: Random Access Memory, RAM

# BONUS

3) GENERAL SCIENCE *Short Answer* What is the part of the computer that holds most of the internal memory and is mostly always greater in space than the RAM?

ANSWER: Hard Disk

# TOSS-UP

4) GENERAL SCIENCE *Multiple Choice* What country created the first satellite:

W) United States

X) Japan

Y) Russia

Z) China

ANSWER: Y) Russia

# BONUS

4) GENERAL SCIENCE *Short Answer* On the very recent launch of the rocket that is going to crash into the moon. What is the satellite following it going to do?

ANSWER: Search for water, remnants of water

**TOSS-UP**

5) GENERAL SCIENCE *Multiple Choice* What is the numerical value of the prefix “nano”

W) .000001

X) .0001

Y) .00000001

Z) .000000001

ANSWER: Z) .000000001

# BONUS

5) GENERAL SCIENCE *Short Answer* What prefix with a numerical value multiplied by the numerical value of the prefix “micro” would equal the numerical value of the prefix “nano”

ANSWER: milli; .001

# TOSS-UP

6) GENERAL SCIENCE *Short Answer* Name two of the three people who won the Nobel Prize in 1945 for the discovery and development of penicillin:

ANSWER: Name two of the following three: Fleming, Florey and Chain

# BONUS

6) GENERAL SCIENCE *Short Answer* What kind of bacteria did this penicillin kill:

ANSWER: Staphylococci bacteria (STAFF-UH-LUH-COKE-I)

**TOSS-UP**

7) GENERAL SCIENCE *Multiple Choice* Which of the following is most specifically designed to measure low temperatures:

W) alcohol thermometer

X) pyrometer

Y) cryometer

Z) mercury thermometer

ANSWER: Y) CRYOMETER

# BONUS

7) GENERAL SCIENCE *Short Answer* What two substances are often used to fill thermometers?

ANSWER: Alcohol and Mercury

# TOSS-UP

8) GENERAL SCIENCE *Multiple Choice* Which of the following is a field in which the Nobel prize is awarded:

W) Mathematics

X) Advances in History

Y) Biology

Z) Literature

ANSWER: Z) Literature

# BONUS

8) GENERAL SCIENCE *Short Answer* What is the first and last name of the person the Nobel Prize is named after:

ANSWER: Alfred Nobel (must have both)

**TOSS-UP**

9) GENERAL SCIENCE *Multiple Choice* How many MAIN branches of chemistry are there:

W) 2

X) 3

Y) 5

Z) 7

ANSWER: Y) 5

# BONUS

9) GENERAL SCIENCE *Short Answer* What is the branch of chemistry that deals with the relationship between electricity and chemical reactions?

ANSWER: ELECTROCHEMISTRY

# TOSS-UP

10) GENERAL SCIENCE *Multiple Choice* Which natural disaster has the most devastating effect in terms of deaths:

W) hurricane

X) earthquake

Y) eruption

Z) tornado

ANSWER: Z) Tornado

# BONUS

10) GENERAL SCIENCE *Short Answer* What is the name given to the part of the United States towards that middle that receives a lot of tornadoes?

ANSWER: Tornado alley

**TOSS-UP**

11) GENERAL SCIENCE *Short Answer* What invention, invented in the 1450s helped spread ideas more quickly and efficiently?

ANSWER: Printing Press

# BONUS

11) GENERAL SCIENCE *Short Answer* Who first created the printing press?

ANSWER: Johannes Gutenburg

# TOSS-UP

12) GENERAL SCIENCE *Short Answer* Which country was the first to use a nuclear warhead offensively:

ANSWER: United States

# BONUS

12) GENERAL SCIENCE *Short Answer* In which city in which country did the U.S. detonate their first nuclear warhead in:

ANSWER: Hiroshima, Japan

**TOSS-UP**

13) GENERAL SCIENCE *Multiple Choice* What is the fastest mammal on land:

W) gazelle

X) lion

Y) cheetah

Z) saluki

ANSWER: Y) Cheetah

# BONUS

13) GENERAL SCIENCE *Short Answer* What is the fastest mammal in water?

ANSWER: Killer whale

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# TOSS-UP

14) GENERAL SCIENCE *Short Answer* What is the professional name for a person who studies the anatomy of the brain?

ANSWER: Neurobiologist

# BONUS

14) GENERAL SCIENCE  *Short Answer* In neurobiology, what is the part of the brain that controls the balance and is located towards the back of the head:

ANSWER: Cerebellum

**TOSS-UP**

15) GENERAL SCIENCE *Multiple Choice* Which famous scientist was born in the year Galileo died:

W) Cousteau

X) Newton

Y) Copernicus

Z) Fahrenheit

ANSWER: X) Newton

# BONUS

15) GENERAL SCIENCE *Short Answer* What was the major concept that Newton discovered that has always been shaping the characteristics of universe?

ANSWER: Gravity

# TOSS-UP

16) GENERAL SCIENCE *Multiple Choice* Which of the following planets is the Earth’s “sister” planet:

W) Venus

X) Uranus

Y) Mercury

Z) Mars

ANSWER: W) Venus

# BONUS

16) GENERAL SCIENCE *Short Answer* Why is Venus considered Earth’s “sister” planet.

ANSWER: It formed at around the same time as Earth.

**TOSS-UP**

17) GENERAL SCIENCE *Multiple Choice*  Who created the first SUCCESSFUL lightbulb:

W) Swan

X) Edison

Y) Davy

Z) Lindsay

ANSWER: X) Edison

# BONUS

17) GENERAL SCIENCE *Short Answer* Name one reason it was considered “successful”:

ANSWER: One of the following: it was made out of a good incandescent material, had a high vacuum, or had a higher resistance lamp

# TOSS-UP

18) GENERAL SCIENCE *Multiple Choice* Which ancient race first created and used the term “atom”:

W) Romans

X) Greeks

Y) Chinese

Z) Indians

ANSWER: X) Greeks

# BONUS

18) GENERAL SCIENCE *Short Answer* The concept of the atom is the base of which science branch?

ANSWER: Chemistry

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**TOSS-UP**

19) GENERAL SCIENCE *Multiple Choice* Who first introduced the idea of heliocentrism, against the practice of geocentrism:

W) Newton

X) Copernicus

Y) Fahrenheit

Z) Aristotle

ANSWER: X) Copernicus

# BONUS

19) GENERAL SCIENCE *Short Answer* Who looked at Copernicus’s ideas and used a much improved telescope to prove them:

ANSWER: Galileo

# TOSS-UP

20) GENERAL SCIENCE *Multiple Choice* Which company had the idea of a cell phone as well as invented a basic one:

W) Bell Labs

X) AT&T

Y) Cingular

Z) Sprint

ANSWER: W) Bell Labs

# BONUS

20) GENERAL SCIENCE *Short Answer* Which employee of Motorola took the ideas of Bell Labs and advanced it?

ANSWER: Dr. Martin Cooper

**TOSS-UP**

21) GENERAL SCIENCE *Short Answer* According to our known evidence, who first described the binary system:

ANSWER: Pingala

# BONUS

21) GENERAL SCIENCE *Short Answer* What are the ONLY two numbers used in binary?

ANSWER: 0 and 1

# TOSS-UP

22) GENERAL SCIENCE *Multiple Choice* Which of these BEST approximates the weight of a modern half-dollar coin:

W) 8.3 grams

X) 9.3 grams

Y) 10.3 grams

Z) 11.3 grams

ANSWER: Z) 11.3 grams

# BONUS

22) GENERAL SCIENCE *Multiple Choice* Which of the following most closely approximates the weight of a 1999 United States nickel:

W) 1.9 grams

X) 2.9 grams

Y) 5.9 grams

Z) 8.9 grams

ANSWER: Y) 5.9 grams

**TOSS-UP**

23) GENERAL SCIENCE *Short Answer* Besides regular matter, what do scientists hypothesize the rest of the universe is made out of:

ANSWER: X) Dark matter

# BONUS

23) GENERAL SCIENCE *Short Answer* What galaxy, do scientist claim, is made almost purely out of dark matter:

ANSWER: Segue 1

# TOSS-UP

24) GENERAL SCIENCE *Short Answer* What must a galaxy have to be considered a galaxy:

ANSWER: Stars

# BONUS

24) GENERAL SCIENCE *Short Answer* What other galaxy shares many similar features with our galaxy, the Milky Way.

ANSWER: Andromeda

**TOSS-UP**

25) GENERAL SCIENCE *Multiple Choice* Where was the first microscope created:

W) India

X) Netherlands

#### Y) Italy

Z) China

ANSWER: X) Netherlands

# BONUS

25) GENERAL SCIENCE *Short Answer* What field of science is the microscope generally used for:

ANSWER: Biology