

## 1. Technology

Which company was launched in 1992, then taken over by US Robotics? US Robotics was taken over by 3Com, which in 2000 spun this branch off as a new company again. This new company is in the process of splitting in two. One part will produce, among other products, the Tungsten and Zire, while the other will be in charge of the handheld Operating System.

ANSWER: Palm (accept longer answers)

## 2. British Literature

In which Shakespeare play is George, the Duke of Clarence, who was the brother of two kings, imprisoned and then killed? It opens with the quote, "Now is the winter of our discontent," and contains the quote, "A horse! A horse! my kingdom for a horse!"

ANSWER: (King) Richard the Third (prompt on Richard)

## 3. Physics (10 Seconds)

Give the three-word phrase for what results when a restoring force is proportional to displacement. Found with small pendulum oscillations and ideal springs, it exists when acceleration, velocity, and displacement versus time are all sinusoidal.

ANSWER: Simple Harmonic Motion

## 4. Pop Culture

According to E! Online, which 1988 movie is the number one chick flick of all time? It is about CC and Hillary, who learn to appreciate their friendship when Hillary becomes terminally ill. Name this movie starring Bette Midler and Barbara Hershey that featured the song Wind Beneath My Wings.

ANSWER: Beaches

## 5. Religion/Mythology

Which English phrase is used for Shahadah, Salah, Zakah, Sawm, and Hajj? These translate as declaration of faith, prayer, alms, fasting, and pilgrimage and are considered the ways that someone becomes a Moslem.

ANSWER: (The Five) Pillars (of Islam) (accept 'Main' in place of 'Five')

## 6. United States History

Though his only formal law training consisted of attending a series of lectures, which Supreme Court Justice wrote a total of 519 opinions during his career, including Marbury vs. Madison? He was the fourth Supreme Court Chief Justice, serving for 35 years after his appointment by John Adams.

ANSWER: (John) Marshall

## 7. Algebra (30 Seconds)

A box contains five red, four white, and three blue marbles. If two of them are chosen without replacement, what is the probability that both are red? Give your answer as a fully simplified fraction.

ANSWER: 5/33

## 8. Current Events

Known as the city of mosques, which town is thirty miles West of Baghdad? It has been the site of several

clashes between the American military and Iraqi civilians, including one on April 28<sup>th</sup> in which fifteen protesters were killed. On Sunday, an American Chinook helicopter was downed by a missile just outside this city, killing sixteen soldiers.

ANSWER: Fallujah (accept Baisa)

#### 9. World Literature

Whose latest novel is narrated by Snowman, who tells of how the world has suffered since the creation of a bubble-dome? This writer's best-known novel is told in the form of a diary and takes place in a religious dictatorship. Name this Canadian author of Oryx and Crake and The Handmaid's Tale.

ANSWER: (Margaret) Atwood

#### 10. Biology

At the end of his autobiography, who concluded that the human species is a product of evolution, that natural environments are a precious part of human heritage, and that philosophy and religion must take into account these basic truths? This biologist has had a major impact in psychology and anthropology since the 1975 publication of his book Sociobiology.

ANSWER: (Edward O) Wilson

#### 11. Language Arts

What is defined as a word that combines with a noun to form a phrase that typically has a supporting relation to some other word? It is one of the eight parts of speech.

ANSWER: Preposition

#### 12. Music

Who grew up as a neighbor of Oscar Hammerstein? He was the composer-lyricist for *A Funny Thing Happened On The Way To The Forum*, and he collaborated with Hal Prince on *Sweeney Todd*. Name this lyricist for Leonard Bernstein's *West Side Story*.

ANSWER: (Stephen) Sondheim

#### 13. Geometry/Trigonometry (30 Seconds)

Find the area of the pentagon formed by connecting the points with the following coordinates in order: the point (0,0), the point (0,4), the point (2,6), the point (3,4), and the point (3,0). Do not worry about units.

ANSWER: 15 (square units)

#### 14. World History

It was privately owned from 1877 to 1908, and that control may have lasted longer had it not been for reports by David Casement. During that time, the population was about cut in half, which represents a loss of roughly ten million lives. Name this African colony whose ownership was passed from King Leopold the Second to his nation of Belgium.

ANSWER: Congo (accept longer answers)

#### 15. Astronomy/Earth Science/Geography

Which area's name comes from the Anglo-Saxon word for foreign? It was given its nickname 'The little

land behind the hills' by David Lloyd George, who was a native. Bordering the Irish Sea, Bristol Channel, and Cardigan Bay, its capital is Cardiff, and it is part of Great Britain.

ANSWER: Wales

#### 16. United States Literature

Give the first name of the woman that the following lines are addressed to: "Thy hyacinth hair, thy classic face, Thy Naiad airs have brought me home to the glory that was Greece and the grandeur that was Rome." These lines were written by Edgar Allan Poe.

ANSWER: (To) Helen

#### 17. Chemistry (10 Seconds)

What process is the opposite of deposition? Substances which commonly go through it are Naphthalene and carbon dioxide, which is useful when you want to keep objects cold and dry. This term refers to changing directly from a solid to a gas.

ANSWER: Sublimation

#### 18. Calculus/Math History (30 Seconds)

Find the x-coordinate of the lowest point on the graph of  $y = x^4 - 32x$ .

ANSWER: (Positive) 2

#### 19. Art/Architecture

What was built in five years, though its dome had to be replaced thirty years later due to an earthquake? Its architects were Isidoros and Anthemios, but the Emperor Justinian took an active role in its design. Name this church created in the sixth century in what is now Istanbul.

ANSWER: Hagia Sophia (prompt if half the answer is given)

#### 20. Nonfiction

It was supposedly written by a man with the last name Saunders who needed money to take care of his carping wife. In what eighteenth century publication would you find the advice: "An empty bag cannot stand upright", "The doors of wisdom are never shut", and "Early to bed and early to rise makes a man healthy, wealthy, and wise"? It was actually written by Benjamin Franklin.

ANSWER: Poor Richard's Almanack

NOTE: These questions are for breaking ties. If you need to replace a question, use the corresponding question from the Replacement packet. In a tiebreaker, the first correct answer wins the match.

#### Tiebreaker #1

Stories of which God overlap with earlier stories about Prajapati? He was born from a lotus that grew from a seed in Vishnu's navel, and there are several different stories about how he created the world.

ANSWER: Brahma (do not accept Brahman)

#### Tiebreaker #2

The virus that causes this disease enters the body through the throat, and in the worst cases it causes

destruction of the anterior horn cells of the spinal cord. What disease paralyzed over twenty thousand Americans in 1952 but has not paralyzed any in the last few years? Vaccines for it were developed by Sabin and Salk.

ANSWER: Polio(myelitis)

Tiebreaker #3

Which state uses the postal abbreviation RI?

ANSWER: Rhode Island