

1. Its economic and bureaucratic problems may have reached a peak this year with an extreme shortage of sugar, which is an essential commodity, as social events there often revolve around strong, sweet coffee. Its sole legal political party is the People's Front for Democracy and Justice. With an area slightly larger than Pennsylvania and 2,234 km of coastline, This African country, one of only four bordering the Red Sea, gained independence in 1993 after a 30 year struggle with its southern neighbor, of which it was formerly a province. FTP name this country with capital at Asmara.

Answer: Eritrea

2. It began on July 23, 1998 when Bravo Team's helicopter crashed into the forest around the Arklay mountains during an investigation of a recent rash of bizarre murders. The next night Alpha Team was dispatched to discover the fate of Bravo Team. The team comes under mysterious attack and flees to the dubious safety of the abandoned Spencer Mansion. So begins the nightmare. By morning only 5 members of the 20-man strong Alpha and Bravo Team remain alive. FTP these events describe what hit Capcom "Survival Horror" game?

Answer: **Resident Evil** (accept only plain Resident Evil)

3. The question isn't so much what this guy was an expert in, but rather what wasn't he? He served as city surveyor of London and invented the first screw-divided quadrant. He constructed the first arithmetic machine and Gregorian telescope. For his microscopic observations of plant tissues, he coined the word "cell." He anticipated universal gravitation, was the first to approach planetary motion as a mechanical problem, was the first to use the balance spring for the regulation of watches, and devised improvements in pendulum clocks. FTP, name this English scientist who set forth the theory of elasticity that bears his name.

Answer: Robert Hooke

4. Its title is drawn from Matthew 7:1, while its source is George Whetstone's play *Promos and Cassandra*. It's a comedy only in the sense that it has a happy ending. Vincentio, the duke, tells Angelo to govern his duchy while he travels to Poland in the opening act of this play. He actually remains in Vienna disguised as a friar. Claudio impregnates Juliet. Isabella offers herself to Angelo, but substitutes Marina, Angelo's ex. In the end, Claudio's life is spared, Vincentio proposes to Isabella, and Angelo is ordered to marry the ex. FTP name this 1605 Shakespeare work.

Answer: **Measure for Measure**

5. It reputedly served as a temporary depository of a document signed by Charles II of England. In 1687 William Andros, the despised Governor-General of New England, demanded the surrender of the document in question, leading to the unusual storage method. It stood as a proud symbol of Connecticut until it fell during a storm in 1856. FTP, what is the name of this tree featured on the back of Connecticut's state quarter?

Answer: Charter Oak

6. Son of a leading bass singer at the Imperial Opera House in St. Petersburg, this composer studied law before turning to music. One of his earliest works, "Scherzo Fantastique", impressed Russian impresario Sergey Diaghilev, with whom he began an association of many years. His first ballets for Diaghilev, "The Firebird" and "Petrushka", won him immediate success. FTP, name this Russian composer of the opera "The Rake's Progress" and the ballet "The Rite of Spring".

Answer: Igor Fyodorovich Stravinsky

7. His body of work includes novels, among them *Not Without Laughter*, and plays such as *Mulatto*. This Joplin, Missouri, native was an important experimenter with poetic form, credited with incorporating the rhythms of jazz in to poetry. FTP, this is what leading figure in the Harlem Renaissance, author of works including "The Big Sea", "I Wonder as I Wander," and "The Weary Blues"?

Answer: Langston Hughes

8. Its name means 'thread granule' because of how it appears under a microscope. It is often referred to as 'cellular power plants' because its primary function is the manufacturing of ATP by means of the Krebs Cycle. FTP, name this organelle found in most cells of eukaryotes.

Answer: Mitochondrion (or plural mitochondria)

9. Citing the clearcut bias of Pierre Cauchon, who conducted the trial, a 1456 hearing repudiated this person's conviction. She had been captured by Burgundians allied with the English while attempting to relieve the siege of Compiègne. It would be five hundred years before she was canonized, long after she was widely hailed as a saint and the savior of France. FTP name this figure of French history, whose feast day is May 30th.

Answer: Jeanne D'Arc (or Joan of Arc, but not Joan Van Ark)

10. Among its last lines, it states that "no person constitutionally ineligible to the office of President shall be eligible to that of Vice-president of the United States." Ratified on July 27th, 1804, it fixed the problem that led to the Jefferson-Burr brouhaha of 1800 and established procedures for Presidential elections. FTP, name this Amendment of the Constitution that separated ballots for President and Vice-president in presidential elections.

Answer: The 12th Amendment of the Constitution

11. He identified life and reason with fire, which he considered the underlying substance of the universe, and believed that no one had an individual soul but that all share a universal soul-fire. Believing nothing was permanent except change, he asserted that all things carry their opposite with them, just as life carries death. Many consider him the first Western philosopher to go beyond physical theory in search of metaphysical foundations and moral applications. FTP, name this pre-Socratic philosopher, also known as "The Dark One."

Answer: Heraclitus

12. Born in 1899, he spent much of his career in Western Europe and the Middle East as a correspondent for several important Latin American newspapers. He traveled to Buenos Aires in 1947 and published "Sien de Alondra", an anthology of his poems. Better known works include "El Senor Presidente", which slashed at the social evil and malignant corruption to which an insensitive dictator dooms his people. FTP, name this author of *Legends of Guatemala*, winner of the 1967 Nobel Prize in Literature.

Answer: Miguel Angel Asturias

13. It did not fulfill its main objective, which was to reconcile the negative result of the Michelson-Morley experiment with classical physics, but it did help provide a mathematical basis for Einstein's theories. A stationary observer of an object in uniform motion would indeed record an equivalent effect relative to the system of coordinates proposed, but Einstein demonstrated that this effect was due to a change in how space and time are measured, not due to actual deformation of the body in question. FTP, name this theoretical contraction or foreshortening of a moving body in the direction of its motion, proposed by its namesake Dutch physicist and based on an earlier suggestion by G.F. Fitzgerald.

Answer: Lorentz-Fitzgerald (or just Fitzgerald before "Dutch") Contraction (or Transformation)

14. Born in 1510 in Salamanca, he arrived in New Spain in 1535 and four years later became governor of Nueva Galicia. After learning about the Seven Cities of Cibola, he was chosen to head an overland expedition to explore and conquer the region for Spain. In his expedition, the navigator followed the Western slope of the Sierra Madre Occidental northward to the present border of the state of Arizona. FTP, name this Spanish navigator famous for discovering the Grand Canyon.

Answer: Francisco Vasquez de Coronado

15. After majoring in literature at Hamilton College, he wasn't very successful as a writer. So he decided to go back to school, and went to Harvard to study psychology, since he had always enjoyed observing animal and human behavior. He aroused controversy by suggested the ceding of individual freedoms to further the goals of an ideal society in 1971's *Beyond Freedom and Dignity*. With pigeons, he developed the ideas of "operant conditioning" and "shaping behavior." FTP, who is this Behavioral Psychologist, designer of the boxes that bear his name?

Answer: B.F. Skinner

16. He insulted a rich kid, the chevalier de Rohan, so badly that Rohan had him beaten to a pulp and then imprisoned in the Bastille for allegedly starting the fight. This heightened his cynicism and led to his lifelong crusade against judicial arbitrariness. His wide range of work includes histories such as a biography of Sweden's Charles XII, tragedies such as *Brutus* and *Zaire*, and philosophical works such as *Letters Concerning the English Nation*. FTP, name this French philosopher and author of *Candide*.

Answer: Voltaire

17. He started on a traditional path, studying at the Ecole des Beaux-Arts and spending five years in Italy studying and meticulously copying the old masters of the Renaissance. But he had different perspectives, literally – he used unusual angles and off-center subjects but still drew the eye to the focus of interest, as in *Women with Chrysanthemums* and *Foyer of the Dance*. In contrast to his impressionist colleagues, he preferred to work in a studio, usually from sketches of his subjects made on the spot in real life settings. FTP, who is this impressionist, known for such works as *Race Horses*, *The Green Dancers*, and *Ballet Rehearsals on the Stage*?

Answer: Edgar Degas

18. A major commercial source for this element is the mineral apatite; for safety and ease of use, many commercial uses begin with its pentoxide. In solid form, it has a tetratomic molecular structure. Isolated from urine around 1670 by the German alchemist Hennig Brand, its black, red, and white allotropes are among the most divergent for any element in terms of chemical properties. Most commonly used in fertilizers, FTP, name this element with atomic number fifteen.

Answer: Phosphorus

19. The frequent adaptation of his work into other languages and settings did not bother him, as Shakespeare's *MacBeth* and *King Lear*, respectively, were the bases for two of his own works, *Throne of Blood* and *Ran*. His smaller character studies, such as *Madadayo* and *Rhapsody in August*, are less familiar to American audiences than the ones transformed into such action films as *A Fistfull of Dollars* and *The Magnificent Seven*. FTP name the director of *Rashomon*, *Yojimbo*, and *The Seven Samurai*.

Answer: Akira Kurosawa

20. Although his stint at law school was ended by banishment, he did complete his studies independently but only briefly practiced law. His brother was executed for plotting to kill Alexander III, and he spent five years in exile in Siberia before leaving Russia in 1900. His influential 1902 pamphlet *What Is To Be Done?* advocated the formation of a disciplined party of professional revolutionaries, which he then proceeded to create. FTP name the founder of Bolshevism and the driving force behind the Russian Revolution of 1917.

Answer: Vladimir Ilich Lenin

21. She wrote a regular column for Redbook magazine and a book for young people titled *People and Places*. She told of her own early life in 1972's *Blackberry Winter*. Her focus on childrearing and gender roles can be seen in such works as *Male and Female* and *Sex and Temperament in Three Primitive Societies*. FTP, who is this American anthropologist best known for the 1928 work *Coming of Age in Samoa*?

Answer: Margaret Mead

22. Armenius was the most insistent lover of this man, the son of the river god Cephisus and blue Nymph Leriopé; this Greek god also shares his name with the scientific name for a daffodil. FTP, name this man who fell in love with himself when he saw his reflection in a pool and whose last words were "Ah, youth, beloved in vain, farewell!"

Answer: Narcissus

23. There's a possibility it might have been a pun or confused with the French translation for "It is gold." When expressing his fascination with languages, Tolkien referred to it as the most beautiful phrase in the English language, though in *Donnie Darko* they said it was Poe who loved it. FTP, what is this two-word phrase for an object that would keep you from getting into a basement?

Answer: Cellar door

1. Citigroup showed great creativity in setting up a special purpose subsidiary called Buconero, apparently for the express purpose of helping Parmalat hide billions of dollars in debt. Seems "Buconero" loosely translates from Italian as "black hole." Answer the following about real black holes FTPE:

a) This is the radius to which a spherical mass must be compressed in order to transform it into a black hole.

Answer: **event horizon**

b) This is the name given to the center of a black hole, where the curvature of spacetime is maximal.

Answer: **singularity**

c) Posited in 1979, this as-yet-undemonstrated conjecture holds that all singularities, with the possible exception of the "Big Bang" singularity, are accompanied by event horizons that completely surround them at all points in time, and thus problematic issues with the singularity are rendered irrelevant, since no information on it will ever escape.

Answer: **cosmic censorship** conjecture, or **Penrose** conjecture

2. Identify the economist by one of his most famous works, FTPE:

"Theory of the Leisure Class"

Answer: Thorstein **Veblen**

"Principles of Political Economy and Taxation"

Answer: David **Ricardo**

"The Affluent Society"

Answer: John Kenneth **Galbraith**

3. Given the top losing candidate or candidates in a Presidential election, name the winner 5-10-20-30:

a) Andrew Jackson, William Crawford, and Henry Clay

Answer: John Quincy **Adams**

b) James G. Blaine

Answer: Grover **Cleveland**

c) John C. Fremont and Millard Fillmore

Answer: James **Buchanan**

d) William Henry Harrison and Hugh Lawson White

Answer: Martin **Van Buren**

4. Identify the architect by the information given, FTPE:

After a fire in 1666 burned the oldest part of London, he submitted a brilliant plan for rebuilding the area and two years later received the coveted post of surveyor of the royal works, a position that gave him control of all government building in Britain.

Answer: Sir Christopher **Wren**

This German-American architect is most famous for having founded the Bauhaus Art School.

Answer: Walter **Gropius**

His brilliant early designs for steel-frame skyscraper construction led to the emergence of the skyscraper as the distinctive American building type.

Answer: Louis **Sullivan**

5. FTPE, name the author from plays:

"Pillars of Society", "Peer Gynt", and "A Doll's House"

Answer: Henrik **Ibsen**

"The Broken Heart" and "'Tis Pity She's a Whore"

Answer: John **Ford**

"Alcestis", "The Trojan Women", and "Electra"

Answer: **Euripides**

6. FTSNOP answer the following about a cool component in biology:

(10) These are linear polymers of a globular protein, which are composed of single rows of protein molecules called protofilaments. Sort of conveyor belts of the cell, they can operate on their own or join with other proteins to form more complex structures.

Answer: microtubules

(10) One of those more complex structures, made of 9 sets of microtubule triplets, these organize the spindle apparatus on which chromosomes move during mitosis.

Answer: centrioles

(5/5) FTPE, name the two types of projections composed of microtubules that certain cells use for movement. The primary difference between the two is just length.

Answer: cilia and flagella

7. For 10 points each, identify the treaty (or treaty multi-pack) that ended the following wars:

War of the Grand Alliance

Answer: Treaty of Ryswick

30 Years' War

Answer: Peace of Westphalia

First Sino-Japanese War

Answer: Treaty of Shimonoseki

8. Identify the authors of these Theater of the Absurd plays on a 10-5 basis.

A. (10 pts.) Breath; Watt

(5 pts.) Endgame; Waiting for Godot

Answer: Samuel Beckett

B. (10 pts.) Jumpers; The Real Inspector Hound

(5 pts.) Travesties; Rosencrantz and Guildenstern Are Dead

Answer: Tom Stoppard

C. (10 pts.) The Lesson; The Chairs

(5 pts.) The Bald Soprano; The Rhinoceros

Answer: Eugene Ionesco

9. **TRAVELS WITH CHARLIE:** Those who have attended past UTC tournaments are probably aware of your genial quizmaster's county-collecting obsession. FTPE name these states that make it more complicated:

(a) Owing to its Catholic influence, this state has 64 parishes instead of counties.

Answer: Louisiana

(b) In 2000 this state added four more census areas, making 11 of those on top of 16 county equivalents called boroughs, among them Sitka, Kenai Peninsula, and North Slope.

Answer: Alaska

(c) By this state's law all incorporated cities (41 at last count) are independent cities apart from the surrounding county.

Answer: Virginia

10. FTPE, identify the film featuring Bruce Campbell:

Bruce Campbell finds himself mysteriously sent back in time to medieval times and is forced to help a small kingdom retrieve the Necronomicon if he ever hopes to return home.

Answer: Army of Darkness

Bruce Campbell plays an elderly Elvis who fights an evil mummy who is stealing the souls of his fellow retirement home residents.

Answer: Bubba Ho-Tep

Bruce plays a newspaper reporter in this Coen Brothers film starring Tim Robbins who is an entrepreneur businessman that invents the hula-hoop, "You know, for kids."

Answer: Hudsucker Proxy

11. The Girl with the Pearl Bonus: Name the following folks FTPE:

The painter of *The Girl with the Pearl Earring*.

Answer: Johannes (or Jan) **Vermeer**

The author of the novel *The Girl with the Pearl Earring*.

Answer: Tracy **Chevalier**

The actress who starred in the motion picture adaptation of *The Girl with the Pearl Earring* and costarred with Bill Murray in *Lost in Translation*.

Answer: Scarlet **Johansen**

12. FTPE, identify the Kurt Vonnegut novel by the description from Amazon.com.

One of Vonnegut's most entertaining novels, it is filled with scientists and G-men and even ordinary folks caught up in the game. These assorted characters chase each other around in search of the world's most important and dangerous substance, a new form of ice that freezes at room temperature.

Answer: **Cat's Cradle**

A slippery, lucid, bleakly humorous jaunt through (sick? inhumane?) America circa 1973, with Vonnegut acting as our Virgil-like companion. The book follows its main character, auto-dealing solid-citizen Dwayne Hoover, down into madness, a condition brought on by the work of the aforementioned Kilgore Trout.

Answer: **Breakfast of Champions**

There's been a [blank]. And everyone--even you--must live the decade between February 17, 1991 and February 17, 2001 over again. The trick is that we all have to do exactly the same things as we did the first time--minute by minute, hour by hour, year by year, betting on the wrong horse again, marrying the wrong person again. Why? You'll have to ask the old science fiction writer, Kilgore Trout. This was all his idea.

Answer: **Timequake**

13. Identify the Gas Law by descriptions, FTPE:

According to this law, the smaller the volume a given amount of gas is squeezed into, the greater the pressure the gas exerts on the walls of its container.

Answer: **Boyle's Law**

This law estates that raising the temperature of a gas causes the gas to fill a greater volume as long as pressure remains constant.

Answer: **Charles's Law**

Finally, this law explains how under identical conditions of temperature and pressure, equal volumes of different gases will contain equal numbers of particles.

Answer: **Avogadro's Law**

14. Name these World War II generals and admirals and whatnot FTSNOP:

(5/5) F5PE name the winning and losing commanders at El Alamein; yes, you must say which is which.

Answer: winner Bernard Law **Montgomery**; loser Erwin **Rommel**

(10) This underrated admiral distinguished himself as commander of the carrier fleet at Midway and was put in charge of the forces that invaded the Marshall and Gilbert Islands.

Answer: Raymond **Spruance**

(10) Later briefly Soviet defense minister under Khrushchev, he eventually won the battle of Stalingrad and then (with Voroshilov) lifted the siege of Leningrad as well.

Answer: Georgi **Zhukov**

15. You may have sat through 9+ hours of The Lord of the Rings Trilogy but lets see how well you really know your Hobbits. Answer these questions for FTPE.

a. He was Frodo's fourth Hobbit companion but was unable to summon the courage to leave the Shire for fear of danger, yet he was almost killed by a Ringwraith anyway.

Answer: Fredegar Bolger (accept first or last name, or simply "Fatty")

b. This greedy Hobbit was a relation of Frodo's who seized dictatorial control over the Shire in Frodo and Co.'s absence. He was himself, however, a puppet of Sharky and met an unseemly end at Bag End.

Answer: **Otho Baggins** or **Pimple**

c. He was Frodo's father who died under mysterious circumstances along with his wife in the potential homicide-suicide drowning that orphaned young Frodo.

Answer: **Drogo Baggins**

16. One of John Kerry's media advisors is Bob Shrum, whose finest work is considered to be the speech given by Senator Edward Kennedy at the 1980 Democratic National Convention. Name these former Shrum clients FTPE:

a) Shrum had previously worked for one of John Kerry's primary opponents, this senator from North Carolina.

Answer: John **Edwards**

b) A former Governor and Senator from Nebraska, his claims to fame include losing a leg in Vietnam and a fairly long-running romance with Debra Winger.

Answer: **Bob Kerrey**

c) For those who don't follow politics, this man may be less well known for his service as a Senator from Wisconsin than for his ownership of the NBA Milwaukee Bucks.

Answer: Herbert **Kohl**

17. FTPE, name the Pope by description:

He crowned "Charles Augustus, Emperor of the Romans" on Christmas Day, 800.

Answer: Leo III

He is depicted in a painting by Raphael next to Rossi and Lorenzo de Medici.

Answer: Leo V

He commissioned Raphael to paint the walls of "La Stanza della Segnatura" in the Vatican.

Answer: Julius II

18. Name the Japanese writer by works, FTPE:

"The Pillow Book"

Answer: Sei Shonagon [accept either name]

"Tales of Genji"

Answer: Murasaki Shikibu [accept either name], or Lady Murasaki

"The Battles of Coxinga"

Answer: Chikamatsu Monzaemon [accept either name]

19. Name these reactions in organic chemistry from descriptions FTPE:

A chemical reaction of two or more molecular entities, resulting in a single reaction product containing all atoms of all components, with formation of two chemical bonds and a net reduction in bond multiplicity in at least one of the reactants.

Answer: Addition Reaction

A reaction, elementary, or stepwise in which one atom or group molecular entity is replaced by another atom or group.

Answer: Substitution Reaction

Two groups are lost most often from two different centers with concomitant formation of an unsaturation in the molecule (double bond, triple bond) or formation of a new ring. If the groups are lost from a single centre (alpha-elimination, 1/1/elimination) the resulting product is a carbene or a "carbene analogue".

Answer: Elimination Reaction

20. According to different versions of the myth, Egypt's sun god has different names for different times of the day. For ten points for each answer, given the times of the day, give the name of the sun god at those times.

Dawn

Answer: Khepri

Noon

Answer: Re

Night

Answer: Atum

21. FTPE, name the mathematicians from the following clues:

He postulated that the universe was composed of crystal spheres, in which the heavenly bodies moved around, and those movements caused sounds which he called the "Music of the Spheres":

Answer: Pythagoras

He decided God exists because he could imagine him. He is the father of analytic geometry, and is well known for saying "Cogito Ergo Sum":

Answer: Renée Descartes

This Hungarian mathematician was born in 1903 and is the inventor of Game Theory:

Answer: John von Neumann

22. FTPE name the following from the 1982 film "Blade Runner."

He directed the film.

Answer: Ridley Scott

She portrayed the replicant named "Pris"

Answer: Daryl Hannah

This is the novel by Philip K. Dick that Blade Runner was based upon:

Answer: Do Androids Dream of Electric Sheep?

23. FTPE, given the phobia, state what it is the person is afraid of:

Carnophobia

Answer: meat

Xenophobia

Answer: strangers or foreigners

Hippophobia

Answer: horses