

1. Catherine de Medici's plan to assassinate the Count of Coligny (call-in-ay) failed, so she chose August 24, 1572, as a good day to strike at her enemies in another manner. Because many of those enemies were in Paris, a Catholic stronghold, for the marriage of Henry of Navarre to Marguerite of Valois, it was easy to get loyal Catholics to attack Huguenot leaders. FTP what name is given to this slaughter of Huguenots on a saint's feast day?

Answer: the St. **Bartholomew's Day Massacre**

2. This year, fighting age and injuries, he's averaging fewer than 10 points and 10 rebounds per game for the Toronto Raptors. A star for the University of Houston's memorable "Phi Slamma Jamma" teams of the early 1980's, he was picked first in the 1984 NBA draft, ahead of some guy named Jordan. It wasn't as bad a choice as it sounds, considering that he was NBA Finals MVP the two years between Jordan's first 3 and last 3. FTP name this Nigerian-born who won 2 NBA championships with the Houston Rockets.

Answer: Hakeem **Olajuwon**

3. It begins with the title character wandering on stage, old and decrepit, into the sacred rocky grove of the furies. He sends for Theseus, king of Athens, and when the chorus recognizes him, they insist on his leaving holy ground, though he tells them prophecy says he must die here. Soon Creon arrives and threatens the seizure of Ismene and Antigone. This is, FTP, what second play in the Theban trilogy by Sophocles?

Answer: **Oedipus at Colonus**

4. They usually have leaf veins in the form of a net, a ring of vascular bundles in the stem, and flower parts in multiples of four or five. They include many food plants, such as potatoes, peas, and beans, as well as ornamental flowers, like the rose and honeysuckle, and hardwood trees, including oaks and beeches. FTP name this type of flowering plant distinguished by having two seed leaves.

Answer: **dicot**

5. He became the husband of Elsa, daughter of the duke of Brabant, after taking an unusual journey. At King Arthur's command he was taken by a swan through the air to Mainz, where he fought to free Elsa. FTP, name this son of Parzival, who was the subject of an opera by Wagner.

Answer: **Lohengrin**

6. Double the factorial of this number is equal to how many minutes are in a week. It is the first happy prime number, is speculated to be the number of colors needed to color an arbitrary map on a donut, and is the number of bridges in the famous Königsberg problem. FTP identify this number whose binary representation is 111, the largest single digit prime, and the number of holes in a horseshoe – a traditional token of good luck.

Answer: **seven**

7. Inspired by the critical views of T.E. Hulme, its adherents included F.S. Flint, Richard Aldington, and Hilda Doolittle. Works in this antiromantic tradition evoked an exact visual picture using succinct verse of dry clarity and hard outline. FTP name this literary movement, whose leadership fell to Amy Lowell in 1914 when it was abandoned for Vorticism by its foremost original advocate, Ezra Pound.

Answer: **Imagism**

8. The Landform Method and the Compass Method are two traditional schools associated with this Chinese philosophy, which advocates environmental design techniques as a way to enhance one's personal "chi" [CHEE], or life force. This study of the relationship between the environment and human life is referred to by two words that translate as "wind" and "water." FTP name this current trend in interior design.

Answer: **Feng shui** (pronounced "fung shway" but accept variants)

9. A former Congressional staffer, he had also been a special assistant to the Secretary of Housing and Urban Development before becoming press secretary in 1979 to John Connally, then a Presidential candidate. Connally's conqueror in the primaries, Ronald Reagan, brought him on board. He continued to serve officially as Reagan's Press Secretary despite being unable to fulfill most of his duties for Reagan's last 7 years in office. FTP name this political pro who with his wife Sarah became a major advocate for handgun control after he was seriously wounded by would-be assassin John Hinckley.

Answer: James "Jim" **Brady**

10. These compounds must not affect the solution they inhabit, and they must be able to change rapidly to be useful. Examples include thymol blue, methyl orange, methyl red, and, most famously, phenolphthalein (feen-ol-thay-leen), which is clear in acidic solutions but turns purple in a base. FTP name this type of compound, used in titration, which changes color in response to a specific change in pH.

Answer: **indicators**

11. Currently under Pakistani administration, it lies partly in China and partly in Jammu and Kashmir. Part of the Karakoram Range, it stands on a tributary of the Baltoro Glacier, the third largest in the world. With an alternate name coming from the fact it was the second Karakoram peak measured, FTP what is this second highest peak on Earth?

Answer: **K2 or Godwin Austen**

12. Falsely claiming to be the original lead singer of Pink Floyd, he rebelled against the family calling at the age of 21, became a delinquent, and dropped out of Oxford. During this dark age, he summoned the demon Eyghon and earned the nickname "Ripper" from his chaos-worshipping friend, Ethan Rayne. He was fired from one job for being too emotionally attached and lost another after blowing up his place of work, but landed on his feet as the proprietor of The Magic Box. FTP, name this character, Buffy Summer's "Watcher," played by Anthony Stewart Head.

Answer: Rupert **Giles**

13. He vetoed a bill to make Colorado a state, saying it did not yet have sufficient population. More likely it was to save his own political hide, since he knew that any potential Senators from that state would oppose him, especially after the treatment the people of Kansas gave Sen. Edmund Ross for not doing so. A year later, he selected General Lorenzo Thomas as Secretary of War, removing Edwin Stanton in apparent violation of the Tenure of Office Act. FTP, name this president, who, by a 19 to 35 vote, was acquitted by Senate after the House voted 126-47 to impeach him.

Answer: **Andrew Johnson**

14. In general it is equal to the mass times the radius of gyration squared. The rotational kinetic energy is equal to one-half times this quantity times the angular velocity squared. For a sphere of mass M and radius R, and any axis through the center, it is 2/5 times M times R squared. It plays the same role in rotational mechanics that mass does in linear mechanics. Equal to the torque divided by angular acceleration, FTP name this quantity, sometimes symbolized capital I, which describes an object's resistance to change in rotation.

Answer: **moment of inertia**

15. MacGowan. Samson. Tull. Peabody. Cora. Dewey Dell. Whitfield. Addie. Anse. Cash. Jewel. Vardaman. Darl. These are most of the 15 narrators of, FTP, what William Faulkner novel about the long journey of the Bundren family to bury Addie?

Answer: **As I Lay Dying** [prompt on Faulkner; do not accept Bundren, as the first ones aren't]

16. Like Gandhi and Nehru, he was a British-educated lawyer who joined the Indian National Congress. Unlike them, he was a Muslim, and he left the group in 1920 when his demand for a separate Muslim electorate was rejected. He spent the next 20 years simultaneously seeking Indian independence and political equality for Muslims before adopting the aim of a separate Muslim state, which he saw formed in 1947. FTP name the founder of Pakistan.

Answer: **Mohammad Ali Jinnah**

17. These worshippers of the fish-god Dagon were a Sea People of Aegean origin who penetrated Egypt and Syro-Palestinian coastal areas during the 11th century BCE. Their chief cities included Gaza and Gath, and according to the Bible their ripe fields of corn were set ablaze by foxes that had been caught by Samson. FTP, name this warlike people of Canaan's coastal plain, whose name is now a synonym for a person indifferent to art and culture, and whose massive champion was slain by a single stone.

Answer: **Philistines**

18. This painter, a relative unknown until W. Thore-Burger "discovered" him in 1866, was a slow worker who produced no more than 40 small canvasses before his death at age 43 in 1675. His famous works like "Girl with a Pearl Earring" often depict figures within carefully composed interior spaces. FTP name this supreme exponent of light and shade in Dutch interior painting, who composed "Head of a Girl" and "View of Delft."

Answer: **Jan Vermeer**

19. Karl Schwartzchild predicted their existence as a consequence of general relativity, and John Wheeler named them. Supermassive ones may be at the center of quasars and other galaxies, including our own. FTP name these objects, whose gravitational field is so strong that even light can't escape.

Answer: **black hole**

20. This novel contains a storm scene that its author regarded as his best writing, in which Ham dies heroically. "Barkis was willin" to marry a plump, plain servant, and James Steerforth runs off with Emily. The main character lives with an ineffectual but idealistic couple whom are always expecting something to turn up, but often have to pawn the silver. Frail Dora expires and the manipulative Uriah Heep is exposed as a rogue in, FTP, what autobiographical novel by Charles Dickens?

Answer: ***David Copperfield***

21. In Hindu mythology Brahma rides on Hamsa, one of these creatures. In a Grimm's fairy tale, eleven brothers are turned into them before their younger sister breaks the spell. The male of the species was associated with Apollo in ancient Greece. FTP what are these birds into one of which Zeus transformed himself to take the mortal woman Leda?

Answer: **swan**

22. He was almost 40 years old and in the twilight of his career when he finally got his only World Series title, in 1924. He still holds the career record for shutouts with 110 – 20 more than the next highest – and led the AL in strikeouts twelve times in a 15-year stretch. Along with Christy Mathewson, he was one of two pitchers in the five charter inductees into the Baseball Hall of Fame. FTP name this legendary Washington Senators pitcher, nicknamed "Big Train."

Answer: **Walter Johnson**

23. In one ancient text she brags about her piercings and buttock jewelry, and this nymphomaniacal goddess periodically regenerated her virginity by bathing in a sacred lake. Often depicted with a bow and quiver commanding armies, she was rejected in love by Gilgamesh, but found solace in the violent embraces of her own brother, Tammuz. FTP, identify this "star of the morning," the Mesopotamian goddess of love.

Answer: **Ishtar**

1. FTPE name the philosophers whose works help shape the ideals of the American Revolution:

a) In his 1748 book *The Spirit of the Laws*, this Frenchman put forth a theory of the separation of powers.

Answer: Baron de **Montesquieu** (or Charles Louis de **Secondat**)

b) Like the Founding Fathers, Montesquieu was heavily influenced by this author of *Two Treatises on Government* and *Essay Concerning Human Understanding*.

Answer: John **Locke**

c) Jefferson in particular was taken by this man's view of government as an expression of the people's general will, as set forth in his *The Social Contract*.

Answer: Jean-Jacques **Rousseau** [prompt on Rousseau]

2. These substances must have misbehaved a lot in school. Answer the following about suspensions FTPE.

A suspension in which particles larger than most molecules don't dissolve but stay suspended in another medium, such as many paints and foams, is called this.

Answer: **colloid**

This is a type of colloid in which solids or liquids are suspended in a gas or liquid; in common household use they are expelled from a can by a hydrocarbon propellant.

Answer: **aerosol**

Shining an intense beam of light through a substance leading to a scattering of that light as it hits suspended particles is an example of this effect, which explains the gray-blue color of smoke.

Answer: **Tyndall effect**

3. Answer the following questions about the American West FTSNOP:

(A) FFP each, name the two railroad lines which united in 1869 at Promontory Point, Utah.

Answer: **Union Pacific** and **Central Pacific**

(B) FTP, name the author of the seminal essay "The Significance of the Frontier in American History" that pointed out how the West shaped the national character.

Answer: Frederick Jackson **Turner**

(C) FTP, what 1887 act divided reservations into 160-acre farms, and promised "good" Indians American citizenship?

Answer: **Dawes Act**

4. Name the Tennessee Williams plays which include these characters, FTP each:

A. Stanley Kowalski

Answer: **A Streetcar Named Desire**

B. "Big Daddy" Pollit, Brick, and Maggie

Answer: **Cat on a Hot Tin Roof**

C. Serafina Delle Rose

Answer: **The Rose Tattoo**

5. Your genial quizmaster is way too fond of Russian classical music. FTPE indulge him and name the composers of:

a) *On the Steppes of Central Asia* and *Prince Igor*, which contains the outstanding *Polovetsian Dances*

Answer: Aleksandr **Borodin**

b) *Pictures at an Exhibition*, *Night on Bald Mountain*, and the opera *Boris Godunov*.

Answer: Modest **Mussorgsky**

c) The ballet *Gayane*, remembered mostly for the popular "Sabre Dance".

Answer: Aram **Khachaturian**

6. Old Henry VIII had six wives, two of whom actually outlived him. And hey, he only executed two of the others. FTPE name the six wives of Henry VIII. A hint: there are only three different first names in the mix.

Answers: **Catherine of Aragon**, **Anne Boleyn**, **Jane Seymour**, **Anne of Cleves**, **Catherine Howard**, and **Catherine Parr** [prompt on partial answers, except just go ahead and accept Jane]

7. Answer the following about a law FTPE:

A. Named after one of the co-founders of Intel, this computing "law" is really an empirical observation that states that the speed of silicon chips roughly doubles every 18 months.

Answer: (Gordon) **Moore's Law**

B. Paper and pencil ready. If the author of this question had a computer in 1982 with 1 Megahertz processing speed, then according to Moore's Law, how fast should my computer be in 2003? You may round to the nearest gigahertz. (allow 20 seconds)

Answer: **16 Giga hertz** (Accept 16,384,000,000 hertz)

C. If I had 64 Kilobytes of RAM in my 1982 computer, and we assume Moore's Law holds for memory as well, how much memory should I have in my 2003 machine? (allow 20 seconds)

Answer: **1 Giga byte** (Accept 1,048,576,000 bytes)

8. The film *Wo hu kang long* is known as *Crouching Tiger, Hidden Dragon* in English. Give the answers to these questions (in English) about the film, FTP each.

a. Yu Shu Lien is played by this actress.

Answer: **Michelle Yeoh**

b. Jen Yu is tutored by this criminal, played by Pei-pei Chang.

Answer: **Jade Fox**

c. Jen covets this sword owned by Li Mu Bai.

Answer: the **Green Destiny**

9. Show off your seismology knowledge by answering the following FTPE.

Though earthquakes can cause great loss of life, in the 1964 Alaska quake, as in many others, most deaths were caused by these destructive waves that can move 300-600 mph.

Answer: **tsunami** (acc. seismic sea wave)

The focus is where an earthquake originates; what term designates the location on Earth's surface directly above the focus?

Answer: **epicenter**

The velocity of seismic waves greatly increase abruptly when they pass this boundary separating the crust from the underlying mantle.

Answer: **Mohorovicic** discontinuity (acc. "Moho")

10. FTP each, identify the literary movement or group that these writers were part of.

A. John Osborne, Alan Sillitoe, and Kingsley Amis [although Amis objects to the designation]

Answer: **Angry Young Men**

B. Countee Cullen and Claude McKay

Answer: **Harlem Renaissance**

C. E.M. Forster, Lytton Strachey, and Virginia Woolf

Answer: **Bloomsbury** Group or Circle

11. Okay, mythology types—let's see what you know about Native American myth. Answer the following FTPE.

This canine western predator/scavenger was, in the mythology of some tribes, a prankster character.

Answer: **Coyote**

Coyote was terribly stomped when he tried to hunt like this animal, a common western feline predator.

Answer: **Bobcat**

This flute-playing Toltec fertility spirit is commemorated in tons of cheap jewelry and t-shirts these days.

Answer: **Kokopelli**

12. Identify the following Scandinavian writers FTPE.

Winner of the Nobel for Literature in 1951, this author is best known for the novels *The Dwarf* and *Barrabbas*.

Answer: **Par Lagerkvist**

Though he considered himself a serious dramatist and novelist, this Dane is best known to us today for his children's stories like "The Red Shoes" and "The Ugly Duckling."

Answer: **Hans Christian Andersen**

This Swedish dramatist wrote *Miss Julie* and *The Ghost Sonata*.

Answer: **August Strindberg**

13. FTPE, given one of the leaders of postcolonial Africa, name the nation he served as President:

a) Kwame Nkrumah

Answer: **Ghana**

b) Julius Nyerere

Answer: **Tanzania**

c) Jomo Kenyatta

Answer: **Kenya**

14. Identify these things about digestion in the stomach, for 10 points each:

a) This enzyme prevents the stomach lining from being broken by the low pH acid in the stomach.

Answer: **pepsin**

b) Pepsin is made from pepsinogen, an example of this type of molecule. Normally, it lies dormant until a situation arises when a large amount of substrate is evident. Then it proceeds to change into an enzyme.

Answer: **zymogen**

c) This sphincter controls the flow of food from the stomach to the small intestine.

Answer: **pyloric sphincter**

15. Given a description, name the National Park FTPE.

The first National Park established east of the Mississippi, it's also the easternmost.

Answer: **Acadia**

This park covers 800,000 square acres on the border of Mexico where the Rio Grande makes a sharp turn west.

Answer: **Big Bend**

Known for its high cliffs and waterfalls, as well as the Hetch Hetchy Reservoir and Tuolumne meadows, this park is prominently featured in the photos of Ansel Adams.

Answer: **Yosemite**

16. Identify these candies produced by JustBorn, FTP each.

a. These marshmallowy baby chicks seen around Easter may be JustBorn's most recognizable product.

Answer: **Peeps**

b. This candy with a rhyming name is not quite a gumdrop, but isn't just a jelly bean, either. Some say it was named for President Eisenhower.

Answer: **Mike and Ike**

c. These are basically Mike & Ike's, except they are a spicy cinnamon flavor.

Answer: **Hot Tamales**

17. Dig these Beat writers FTPE, man.

a) Parts of this man's seminal *On the Road* were written in Orlando's College Park.

Answer: **Jack Kerouac**

b) Fictionalized as "Old Bull Lee" in *On the Road*, this writer's radical takes on art and sexuality can be seen in books like *Junky*, *Queer*, and his classic *Naked Lunch*.

Answer: **William S. Burroughs**

c) This Beat author's acclaimed poetry had less impact on the movement than his founding of the pivotal City Lights bookstore in San Francisco.

Answer: **Lawrence Ferlinghetti**

18. Identify these hyphenated treaties which gained land for the U.S. FTPE.

This 1819 treaty gained Florida for the U.S. while leaving the areas west of the Sabine River in Texas in Spanish hands.

Answer: **Adams-Onís Treaty**

This agreement, ratified by Congress in 1818, mostly settled U.S.-Canada boundaries in the Great Lakes and limited the number of warships allowed to permanently sail there.

Answer: **Rush-Bagot Convention (or Agreement)**

This 1842 agreement adjusted the boundary between Maine and New Brunswick in the aftermath of the Aroostook War.

Answer: **Webster-Ashburton Treaty**

19. Answer the following questions on the Carnot cycle FTPE.

10) Two branches of the cycle take place at constant temperature. What term describes such a process?

Answer: **isothermal**

10) The other two branches of the cycle take place with no exchange of heat with the surroundings. What term describes such a process?

Answer: **adiabatic** (accept isentropic)

10) A Carnot engine operates between two reservoirs of temperature 100 Kelvin and 400 Kelvin. What is the efficiency of the engine?

Answer: **3/4** or 75% or 0.75

20. Name the directors of the following foreign films, FTSNOP.

A. For 5 points, *La Dolce Vita*.

Answer: Federico _Fellini_

B. For 10 points, *The 400 Blows* and *Jules and Jim*

Answer: Francois _Truffaut_

C. For 5 points, *Breathless* and *Alphaville*

Answer: Jean-Luc _Godard_

D. For 10 points, *Ikiru* and *The Seven Samurai*

Answer: Akira _Kurosawa_

21. The author of this question is on a diet. If he were to tip the scales at the following weights, in what division would he box, FTP each?

a. 118 pounds

Answer: bantamweight

b. 145 pounds

Answer: welterweight

c. 165 pounds

Answer: super middleweight