

1. The low range of this woodwind instrument is called the Chalumeau register in honor of a 16th century predecessor. By 1750 it had five keys and had become a standard part of the orchestra, but keys kept being added to expand its range. In 1844 two French musicians applied the Boehm flute key system to it, creating the modern version. Usually made of ebonite or African black wood, and played by Benny Goodman, FTP name this reed instrument sometimes called the "licorice stick."

Answer: clarinet

2. Roman Polanski did a grotesque film version of this work after Sharon Tate's murder. In 1936 Orson Welles set the play in Haiti and used an all-black cast, with tropical trees used for Birnam Wood. The goddess Hecate puts into motion the prophetic curse implemented early in the play, and there is a botched assassination attempt on Fleance, though they do manage to kill Banquo. The last act features a battle outside of Dunsinane Castle, before a final battle between the title figure and a man who was "from his mother's womb/ untimely ripped." FTP, name this Shakespeare tragedy set in Scotland.

Answer: **Macbeth**

3. He may be indirectly responsible for the only thing standing between Arnold Schwarzenegger and the presidency. Born in Nevis in the West Indies in 1755 or 1757, this man became a hero in the Revolutionary War, serving as aide-de-camp to Washington and leading an important charge at Yorktown. FTP name this man, who was later the founder of the Federalist Party and first Secretary of Treasury, and whose likeness now graces the \$10 bill.

Answer: Alexander **Hamilton**

[EDITOR'S NOTE: Some correspondence from the time implies that one reason the Founding Fathers put that provision about being a natural born citizen into the Constitution was their fear of Hamilton, whom it disqualified.]

4. Murray Gell-Mann coined its name from a line in James Joyce's *Finnegan's Wake*. This particle can be found in up, down, top, bottom, charm, and strange varieties. FTP, name this subatomic particle that also happens to be the name of the owner of a bar in *Star Trek: Deep Space Nine*.

Answer: **quark**

5. As a poem by TS Eliot, it is an agnostic's prayer for faith and calm, with the refrain, "Teach us to sit still." As a novel by Ethan Hawke, it is the story of Jimmy Heartsock and Christy Ann Walker's cross-country road trip. As a recent film by Ed Burns, it featured Elijah Wood as a 1980's New York Irish mobster. As a holiday, it fell on March 5 this year. It is FTP the name common to all these, known to Christians as the first official day of Lent.

Answer: **Ash Wednesday**

6. The average elapsed time between their characteristic phenomena ranges from 4 seconds down to milliseconds for some in binary systems. Anthony Hewish won a Nobel in 1974 for their discovery, despite the fact that he originally dismissed the observation as the result of man-made interference, and the fact that it was his assistant Jocelyn Bell who gathered the data, charted the data by hand, and correctly theorized the source. FTP name these stellar objects that emit regular bursts of radio waves.

Answer: **pulsars**

7. A Telmarine by birth, he was the tenth of his name in his family line. Raised in the court of his uncle Miraz, he learned from his tutor that Miraz was a usurper who had killed his father. He eventually triumphs over Miraz's forces, but only after Miraz's corrupt courtier Glozelle killed Miraz while Miraz was battling Peter, one of the titular prince's four allies from England. FTP name this nobleman, title character of the second book of C.S. Lewis's *Chronicles of Narnia*.

Answer: Prince (later King) **Caspian**

8. He came from an impoverished patrician family. His service in the Jugerthine (Jew-GERTH-eeen) War jumpstarted his career. In 81 BC he made himself dictator and reorganized the constitution. FTP name this Roman, most famous for his rivalry with his one time patron, Marius.

Answer: L. Cornelius **Sulla** Felix

9. QUOTE: "Look mami I got the X if you into taking drugs / I'm into having sex, I ain't into making love / So come give me a hug if you into getting rubbed." These lyrics follow the statement of where you can find 50 Cent in, FTP, what hit rap song?

Answer: **In Da Club** [prompt on early buzz with 50 Cent, but if they say One Dollar, don't make change]

10. Its three establishing principles were *travail*, *familie*, and *patrie*, or work, family and fatherland. Its Commissariat for Jewish Affairs was established in 1941 and helped round up thousands of Jewish citizens and deport them to Nazi camps. Led by Marshal Henri Petain, FTP name this German-sanctioned government in unoccupied France in WWII, named for the Southern city in which it was centered.

Answer: **Vichy**

11. It was first designed for use in a home-entertainment device called the *7 [*Star-7*] and was called Oak. It is considered simpler than other object-oriented languages because it has automatic memory allocation and garbage collection. FTP, name this programming language created at Sun Microsystems that many web sites use in the form of applets.

Answer: **Java**

12. Designed by Pythius and adorned by sculptures of Scopas and Praxiteles, it was located in modern day Turkey. This Wonder of the Ancient World was built in 353 BC for the local tyrant -- from whom it receives its name - by his widow. Her name was Artemesia, though she was not the famous Artemesia mentioned in Herodotus. FTP, what was this funeral structure, which like the Taj Mahal stands as an eternal symbol of devotion?

Answer: the **Mausoleum** at Halicarnassus

13. She was a Fulbright scholar at Smith College before mental illness made her take a short hiatus during her academic career. After her recovery, she would be praised for her volumes of poetry gathered in *The Colossus* and *Ariel*. She may be more widely read today, though, for her semi-autobiographical novel that chronicles a young woman's journey through depression. FTP name the author of *The Bell Jar*.

Answer: Sylvia **Plath**

14. At high concentrations, this mineral is toxic to humans, but it is necessary in small amounts for the formations of certain proteins. More common uses, however, are in copy machines, as a photographic toner, and by the glass industry to decolorize glass and make ruby colored enamel. FTP, name this mineral, with atomic weight 79, atomic number 34 and chemical symbol Se.

Answer: **Selenium**

15. This country's name means "land of the upright people." It gained independence from France in 1960 but it did not draft a Constitution until the early 1990's. Its flag consists of a red stripe and a green stripe with a yellow five-point star in the center. FTP, identify this land-locked west African country with capital at Ouagadougou.

Answer: **Burkina Faso**

16. His sketchy education gave no hint of his future brilliant career, and his efforts at writing fiction never matched the success on his day job. In 1911, he felt he had to advise two clients, the McNamara brothers, to plead guilty to bombing the antiunion *Los Angeles Times*. This alienated the labor movement, which he had served well for years, so his highest profile cases in his later years were criminal cases such as the Leopold and Loeb trial. FTP name this crusading attorney, best remembered today for his technically unsuccessful defense of John T. Scopes.

Answer: Clarence **Darrow**

17. Upon its 1899 publication, this novel was widely condemned for the heroine's extramarital affair with the younger Robert LeGrun, for her suicide at the end, and for even addressing the subject of female sexuality. Largely forgotten for years thereafter, it received new attention and acclaim for its proto-feminist themes, and then people noticed that it was actually well written. FTP name this novel about Edna Pointillier's journey of self-discovery, written by Kate Chopin.

Answer: The **Awakening**

18. An attempt has been made to link Arminius, liberator of Roman Germany with this hero of Germanic myth. The link is tenuous, but supposedly the dragon Fafnir represents the Romans and their family bloodbaths bear similarities. FTP, who was this great Germanic hero who pledged himself to Brunhild and wielded a great sword?

Answer: **Sigfried** or **Sigurd**

19. Directed by Suri Krishnamma, it stars Erika Christensen, Katherine Heigl, and Aimee Osbourne. The action is set in modern-day California instead of on the moors of Britain, though the moodiness of characters Catherine and Heathcliff remains intact. FTP name this MTV adaptation of a classic Bronte tale.

Answer: **Wuthering Heights**

20. His first discoveries concerned the asymmetry that distinguishes the organic from the mineral, opening up the field of stereochemistry. However, he is better known for his work on fermentation and spontaneous generation. In 1885, he began studying infections crippling the French silkworm industry, which eventually led him to discover the technique of sterilization, revolutionizing surgery. FTP, name this scientist, for whom a research institute is named in France, and whose namesake process is used to make things like beer and milk safe to drink.

Answer: Louis **Pasteur**

21. Born in 1854 in Ireland, his personal life was anything but ordinary as he was sentenced to two years of hard labor for sodomy, an experience that led to the composition of *The Ballad of Reading Gaol* (pron. JAIL). FTP, name this playwright whose only novel was *The Picture of Dorian Grey* and who also wrote *The Importance of Being Earnest*.

Answer: Oscar **Wilde**

22. Its scientific classification is *Geococcyx californianus* but in various episodes it has been identified as "Accelerati Incredibilus," "Fastius Tasty-us," "Burn-em Upus Asphaltus," and "Birdibus Zippibus." Its nemesis's scientific classification is *Canis latrans*. FTP, name this small desert bird, the subject of dozens of Warner Brothers animated shorts.

A: **Road Runner**

23. Unlike most plants, plants exhibiting this use PEP carboxylase instead of rubisco, because it has a higher affinity for carbon dioxide. Normally, this type of photosynthesis occurs in plants growing in arid environments because carbon dioxide can be collected at night rather than during the day. Stomata on the leaves can not open during the day because of the high amount of water loss, in FTP, what type of metabolism, found in plants known as succulents?

Answer: **Crassulacean Acid Metabolism (CAM)** (accept **C₄** metabolism before "arid")

BONI – ROUND 3**TREVOR'S TRIVIA: BOB SELCER MEMORIAL 2003 -- UTC**

1. **VISUAL BONUS:** *[hand out attachment]* 5 points per answer, name the 20th century artist and the work.

Answers:

- 1) Pablo **Picasso**, **Guernica**
- 2) Salvador **Dali**, (The) **Persistence of Memory**
- 3) Edvard **Munch** [MOONK, but Munch is OK], The **Scream** (or The Cry)

2. FTPE tell in which phase of mitosis the following occur or appear:

- (a) Microfilaments shorten to pull the plasma membrane into the center, forming a cleavage furrow

Answer: **telophase**

- (b) The nucleoli disappear, the nuclear envelope breaks down, and the nuclear spindle is assembled.

Answer: **prophase**

- (c) This phase concludes when the microtubules pull each chromatid apart into two chromosomes.

Answer: **metaphase**

3. For 10 points each identify these Baz Luhrmann films.

This 1992 film, based on an Australian play by the same title, follows one of Australia's leading ball room dancer who chooses to use his own steps, rather than the Dance Federation's.

Answer: **Strictly Ballroom**

Also based on a play by the same name, this 1996 film was updated from the play version to have a more modern twist. Some lines in the dialogue of this film come from other works written by the playwright, including the lines 'Such stuff as dreams are made on' and 'Experience is by industry achiev'd'.

Answer: *William Shakespeare's* **Romeo and Juliet** [accept if they say "plus" instead of "and"]

This film released in 2001, depicts the activities surrounding a world famous night club. This unique musical is set in the 19th century with music from popular 20th century artists including Elton John and ABBA.

Answer: **Moulin Rouge**

4. Given the years they were in power name these recent Israeli Prime Ministers

- 10) 1974-1977 and again from 1992-1995, at which time he was assassinated

Answer: Yitzhak **Rabin**

- 10) 1996-1999 from the Likud Party

Answer: Benjamin **Netanyahu**

- 10) 2001-present

Answer: Ariel **Sharon**

5. 30-20-10 Name the American writer from works.

- A. (30) "To Helen" "Sonnet-to Science"

- B. (20) "Ligeia"; "Israfel";

- C. (10) "Ulalume"; "Annabel Lee"

Answer: Edgar Allan **Poe**

6. Answer the following about a pentagon (no, not that one) FTPE.

- A. A pentagon has four interior angles of 100 degrees each. What must be the measure of the fifth angle?

Answer: **140** degrees (acc. 7 pi/9 radians)

- B. What is the measure of a single interior angle of a regular pentagon?

Answer: **108** degrees (acc. 3 pi/5 radians)

- C. What platonic solid has regular pentagons as its faces?

Answer: **dodecahedron**

7. Three nasty sisters of mythology had the power to turn those who gazed upon them to stone. FTSNOP:

- A. For ten points, give the collective name of these three sisters.

Answer: **Gorgons**

- B. For five, name the mortal Gorgon.

Answer: **Medusa**

- C. For 15, name either of Medusa's two sisters.

Answer: either **Stheno** or **Euryale**

8. Answer the following on acids and bases, FTPE.

10) According to this theory, acids are proton donators and bases are proton acceptors.

Answer: **Bronsted-Lowry**

10) These solutions act to keep the pH within a narrow range.

Answer: **buffers**

10) This name is given to substances that can act as either acids or bases in solution.

Answer: **amphoteric**

9. Name these legendary pirates FTPE:

A. His real name was Edward Teach. He terrorized the Carolina coast until Stede Manyard killed him in 1718.

Answer: **Blackbeard**

B. Early in the 18th century this British privateer turned pirate. He was caught and hanged as the most infamous British pirate. No one has ever dug up the gold he supposedly buried in New York.

Answer: Captain **Kidd**

C. Calico Jack Rackham's two fiercest pirates were his girlfriend and her pal. FTP name either of these female pirates whose pregnancies saved them from the noose when Calico Jack was caught.

Answer: either Anne **Bonney** or Mary **Read**

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

A. (10 pts.) Jumpers

(5 pts.) Rosencrantz and Guildenstern Are Dead

Answer: Tom **Stoppard**

B. (10 pts.) Breath; Watt

(5 pts.) Waiting for Godot

Answer: Samuel **Beckett**

C. (10 pts.) The Bald Soprano

(5 pts.) The Rhinoceros

Answer: Eugene **Ionesco**

11. **TRAVELS WITH CHARLIE:** Your genial quizmaster is on a quest to visit every county in the U.S. These he has. Given a major city, name the county it's in FTPE or 30 for all 5 correct.

(a) Chicago, IL

Answer: **Cook**

(b) Miami, FL

Answer: **Dade**

(c) Atlanta, GA

Answer: **Fulton**

(d) Anaheim, CA

Answer: **Orange** [if some smartaleck says "the O.C.", take it but glower at them in annoyance]

(e) Orlando, FL

Answer: also **Orange**

12. Answer the following about plants, FTPE.

a) These small holes in plant leaves let carbon dioxide in and water out, and are mediated by guard cells.

Answer: **stomata**

b) Even though water evaporates from stomata, it is pulled up through the roots and stem to the leaves through this process.

Answer: **transpiration**

c) Transpiration pulls water through sieve cells in this tissue within the stem of the plant.

Answer: **xylem**

13. FTPE, given a plot description, name the Steinbeck work.

a) In this work, the Joad family heads out west to start a new life in California.

Answer: **The Grapes of Wrath**

b) Steinbeck recalls his tour of America in his RV Rocinante and with his French poodle.

Answer: **Travels With Charley**

c) In this novel, Mack and his gang live in the Palace Flophouse and Grill, owned by the grocer Lee Chong. They plan and botch a surprise party for Doc, a well-loved man in Monterey.

Answer: **Cannery Row**

14. Given the NFL player on the cover along with a few other clues, name the recently released football video game FTPE.

10) That's a healthy Michael Vick on the cover this best-selling video game franchise from EA Sports.

Answer: **Madden 2004**

10) You might not recognize the close up of Warren Sapp on the cover, but you might know this game that features a first-person mode.

Answer: **ESPN NFL Football**

10) Peyton Manning graces the cover this game available only on Xbox. It features the ability to participate in custom leagues online via Xbox Live.

Answer: **NFL Fever 2004**

15. FTPE, given a statement, identify which Civil War battle it applies to: the first Battle of Bull Run (Manassas), the second Battle of Bull Run (Manassas), both, or neither.

10) It was a Confederate victory.

Answer: **Both**

10) It resulted in the appointment of George B. McClellan as commander of the Union troops.

Answer: **First**

10) It was the bloodiest battle of the Civil War.

Answer: **Neither** (That was Antietam.)

16. Name the composers of the following named symphonies FSNOP.

A. (5 pts.) Symphonie Fantastique

Answer: Hector **Berlioz**

B. (5 pts.) Symphony #9, "From the New World"

Answer: Antonin **Dvorak**

C. (10 pts.) Symphony #1, "Titan"

Answer: Gustav **Mahler**

D. (10 pts.) Symphony #100, "The Military"

Answer: George Frederic **Handel**

17. Supreme Court cases FTPE.

A. This 1896 case validated a Louisiana railroad policy providing "separate but equal" facilities for blacks and whites.

Answer: **Plessy v. Ferguson**

B. This 1919 decision used the criterion of "clear and present danger" to determine whether a man's right to speak against a war during wartime was constitutional.

Answer: **Schenk v. U.S.**

C. This 1954 case overturned *Plessy v. Ferguson* and mandated integration of public facilities "with all deliberate speed."

Answer: **Brown v. Board of Education** of Topeka KS

18. Given figures from the Old Testament, name their father FTPE.

A. Jacob and Esau

Answer: **Isaac**

B. Reuben, Dan, Joseph

Answer: **Jacob**

C. Ham, Shem, Japheth

Answer: **Noah**

19. Identify these forms of Japanese theater FTPE.

A. The oldest form, it originated in the 1400s and actors traditionally wear wooden masks.

Answer: **Noh**

B. Developed in the 1600s, actors often paint their faces white, and subject matter may include love, jealousy, and heroism.

Answer: **Kabuki**

C. This is the traditional puppet theater of Japan.

Answer: **Bunraku**

20. FTPE, answer these about Albert Einstein:

A. He won a Nobel in 1921 not for relativity, but for his discovery of this effect.

Answer: **photoelectric** effect

B. In 1952, he was offered the Presidency of this country.

Answer: **Israel**

C. He died while teaching at the Institute of Advanced Study at this Ivy League school.

Answer: **Princeton** Univ.

21. FTPE, given the statement of a moral rule that shares its name with a chemical element, identify the rule. If you need the symbol for the element, you'll get five.

10) "Do unto others as you would have them do unto you."

5) Au

Answer: The **Golden** Rule (Accept **Gold**)

10) "Do unto others as you like, before they do it unto you."

5) Ag

Answer: The **Silver** Rule

10) "Pay homage to those above you and intimidate those below you."

5) Sn

Answer: The **Tin** Rule

