

1. In 1816 the U.S. government chartered the Second Bank of the United States to counter the unregulated issuance of currency by individual states. Some states continued not only to issue currency, however, but to tax national bank branches. When the Baltimore branch refused to pay, its manager sued the state. FTP this led to what landmark 1819 case in which Justice Marshall established the doctrine of "implied powers"?

Answer: **McCulloch v. Maryland**

2. Its discovery stemmed from studying cloud chamber photographs of cosmic ray impacts. In so doing, Carl Anderson theorized that there existed another atomic particle, equal to the electron in weight, but opposite in sign. FTP what is this particle, whose existence was confirmed in 1932?

Answer: **positron**

3. Set in Georgia's fictitious Macomb County, it was written as a compilation of letters: to God in the first half and to the protagonist's sister Nettie, a missionary in Africa, in the second half. Notable characters include: Fonso, the sexually abusive stepfather; Albert, a small farmer who marries Celie and generally treats her poorly; Sofia Butler, Celie's daughter-in-law, an outspoken woman who spends years in prison for a minor crime; and Shug Avery a strong blues singer who inspires Celie. FTP name this 1983 Pulitzer Prize winning novel by Alice Walker.

Answer: **The Color Purple.**

4. Pencil and paper ready. You want to paint a regular hexagon with side length 1, but you've forgotten the formula for its area. You remember quickly, however, that you can divide the hexagon into a rectangle with any two opposite sides as its width, leaving 4 small triangles each with equal area. Remembering that each interior angle of a hexagon is 120 degrees, FTP give the total area of the hexagon. You have 15 seconds.

Answer: $2\sqrt{3}$ (2 times the square root of 3)

5. In his youth he spent 18 months in prison for attempting to defect to France, and later he served as a colonel in the War of Polish Succession. His first test as a military commander resulted in an accidental victory at Mollwitz in the First Silesian War. By the end of the 2nd Silesian War his army was regarded as invincible and later, in a period of less than ten months during the Seven Years War he crushed the French at Rossbach, the Austrians at Leuthen, and the Russians at Zorndorf. The prototypical enlightened despot, he corresponded with Voltaire and abolished censorship in his country. FTP name this king of Prussia.

Answer: **Frederick the Great or Frederick II.**

6. Songs on the soundtrack included "Police Truck" by the Dead Kennedys, "Jerry Was A Race Car Driver" by Primus, and "Superman" by Goldfinger. The three two-player modes were HORSE, Graffiti, and Trick Attack. Rune Glifberg scored big points with the Christ Air, Elissa Steamer used the Judo Madonna, and the title character busted out Kickflip McTwist style. FTP, name the 1999 release which revived interest in skateboarding video games.

Answer: **Tony Hawk's Pro Skater** (Do NOT accept THPS 2, 3, or 4)

7. Located on and around Toompea in the Harjumaa region, its medieval street pattern and Hanseatic architecture are maintained in its Old Town. Other sites include the open air museum Rocca al Mare and the palace and park of Kadriorg. This city, home to the 2002 Eurovision Song Contest, was captured by the Danes in 1219 and subsequently held by, in order, the Teutonic Order, Swedes, and Russians until 1991. For ten points, name this city located directly across from Helsinki on the Gulf of Finland, the capital of Estonia.

Answer: **Tallinn**

8. A veteran of the Seven Years War, his first work was *Flore Francaise*, about the plants of France, which was published with the help of Georges Buffon who would later become an intellectual opponent. His critical breakthrough came in 1809's *Philosophie Zoologique*. Here he proposed three major ideas on evolution. First, species change through time even though life arose by spontaneous generation. Secondly he proposed that species progressively change from low forms to complex and perfect forms. For ten points, name this thinker who erred in theorizing the inheritance of acquired characteristics?

Answer: **Jean-Baptiste de Lamarck.**

9. He appears in Walter Scott's novel *Ivanhoe* as the "holy clerk of Copmanhurst." A traditional character in medieval English May-Day plays, his costume is the russet habit of the Franciscans, with a red-corded girdle, red stockings and wallet. Usually depicted as fat and jovial, FTP, who is this vagabond friar best known from the Robin Hood ballads?

Answer: **Friar Tuck**

10. The climax of the battle came in the middle of November when an American fleet defeated a Japanese fleet in "the Slot." This victory, one of seven separate naval battles, cut off Japanese supplies and reinforcements, called the "Tokyo Express" by American troops, allowing Marine and Army divisions to push Japanese land forces back to the east of the island and consolidate their hold over Henderson Air Field. FTP name this decisive battle fought in the Solomon islands, which raged from August 7, 1942 to Feb 9, 1943, signaling the beginning of island hopping.

Answer: **Battle of Guadalcanal.**

11. At 18 he was an associate of the Fatima crew and in 1968 his first major arrest happened for cargo theft and truck hijacking. After two acquittals, he was convicted for life by the testimony of Salvatore Gravano. FTP, name this mobster who succumbed to cancer in 2002, once a prominent member of the Gambino family.

Answer: **John Gotti**

12. Presiding over the east and the west, he dwells in the Himalayas at Mt. Kailash and has over one thousand names. Usually depicted with his eyes half closed and in a meditating position, he wears cobras around his neck, grasps a trident, and has the sacred river Ganga falling around his head. The father of Kartikeya and Ganesha, his consort Parvati was the cause of both his blue neck and his third eye. Part of the Hindu triad, with Brahma and Vishnu, FTP name this god often called "The Destroyer."

Answer: **Shiva.**

13. Mr. Carmichael becomes a successful poet. Prue marries and dies in childbirth. Andrew enlists, is sent to France to fight the First World War, and is killed by an exploding shell. The mother dies in her sleep. Lily Briscoe returns to the Isle of Skye to attempt to finish her picture of the cottage from whose window James and Camilla saw the title black and white striped structure to which James sails. They appear in--FTP--which novel about the Ramsey family by Virginia Woolf?

Answer: **To The Lighthouse**

14. This does not set in for three to six months, indicating the time for collagen turnover. The symptoms also suggest that blood vessels are the first to suffer from a lack of collagen replacement. This disease occurs because functional collagen requires hydroxylated amino acids, and the enzyme responsible for hydroxylation requires ascorbic acid. FTP, name this disease caused by the lack of vitamin C.

Answer: **Scurvy.**

15. He spent 17,000 francs at the First Impressionist show and was later tutored by Camille Pissaro. A proponent of subjective expression he achieved his desired impression by using flat shapes and unmodulating color. After the bank where he worked went under, he became a professional painter and traveled to Rouen where he briefly worked with Van Gogh, and Pont Aven in Brittany, where he painted *The Vision After the Sermon*. FTP name this post-impressionist whose most famous works, including *Where do we Come From? What are We? Where are we Going?* were painted on Tahiti.

Answer: **Paul Eugene-Henri Gauguin.**

16. A supporter of the Socialists in the Spanish Civil war, he became a member of the Communist Party in the last months of his life. A leader of the American Naturalist style, nearly all of his novels deal with poverty and steamy love affairs, both of which he was personally acquainted with and wrote about in the semi-autobiographical works *Hoosier Holiday* and *The 'Genius.'* He nearly committed suicide when his first novel sold poorly because it wasn't promoted by its publisher Frank Doubleday, who objected to its immorality. FTP identify this author of *Sister Carrie* and *An American Tragedy*.

Answer: **Theodore Dreiser.**

17. A workaholic and celibate Quaker, he was known for collecting copious amounts of data. Yet, it was often poor, like his inaccurate and omission-plagued aurora borealis observations. He also posited the discredited theory that discoloration of the liquids within the eye caused color-blindness. His name is sometimes given to that condition, but not to Charles's gas law, which he discovered. FTP name this chemist who developed an eponymous law of partial pressures and an early 19th century atomic theory.

Answer: John **Dalton**

18. Its first performance did not go smoothly, partly because its creator packaged it with all the other music he had composed while vacationing at Heiligenstadt outside of Vienna and also because the orchestra wasn't given much time to prepare. Written in F Major it looks forward to the tone poems of the late 19th century. The main "plot" of the work begins in the third movement, "The Merry-Making of the Country Folk," which is interrupted by a thunderstorm and ends with the "Shepherd's Song: Happy Thankful Feelings after the Storm." FTP name this rustic symphony by Beethoven, his sixth.

Answer: **Pastoral Symphony**. (accept 6th symphony before it is said.)

19. The language of this people has 178 words for "rain" but no word for "crisp." Their society is exceedingly patriarchal: women are not allowed to leave home without a male escort, and often chew the food of males before consumption. Upon reaching adulthood, males auction their boyhood possessions. Their contract with the Karemma for Tulaberry wine was among the first successful link with a gamma quadrant. FTP name the Star Trek race whose members include Brak, Grand Nagus Zek, Rom, and Quark.

Answer: **Ferengi**

20. A lawyer with the firm Sullivan & Cromwell, at the age of 30 he was member of the U.S. delegation to the Paris Peace Conference of 1919. In 1942 he traveled to London to discuss post-war security three years before helping draft the United Nations Charter. The American Ambassador to the Treaty of San Francisco, he developed a conflict with Anthony Eden that would last beyond his formulation of the Eisenhower Doctrine. FTP, name this brinksman, a Secretary of State under Eisenhower.

Answer: John Foster **Dulles**

21. Name's the same. Herodotus described the first as very cosmopolitan housing Greeks, Jews, Phoenicians, and Libyans. Its necropolis stretched 19 miles along the Nile's western bank. Ptah was the principle deity of this administrative capital of the Old Kingdom founded by Menes which declined only after the Muslim had established their capital only miles away at Cairo. The second is home to Historic Elmwood Cemetery, Libertyland Amusement Park, and the Cardinal's AAA affiliate Redbirds. FTP name this Tennessee City on the Mississippi home of Elvis and Graceland.

Answer: **Memphis**.

22. In one legend, he learned the Phoenician alphabet from Cadmus but gave each letter its definitive name and shape himself. Often linked to Hermes, this son of Apollo and a Muse invented rhythm and melody. However, when he tried to settle down the rebellious Heracles while teaching him music, Heracles killed him with a stool. FTP name this remarkable musician who was a masterful lyrist but never known to carry around a security blanket.

Answer: **Linus**

23. At the age of ten he wrote a short paper on an albino sparrow so that a university librarian would take him seriously; he eventually received a doctorate in zoology and spent his early career studying mollusks. After WWI he became interested in psychology and worked in one of Alfred Binet's laboratories. However, he disagreed with how Binet examined children's intelligence and developed a theory of genetic epistemology, an empirical study of how our learning processes change and improve as we age, which posited that children progress through four stages of learning beginning with the Sensorimotor and ending with the Formal Operational. FTP name this Swiss child psychologist.

Answer: Jean **Piaget**.

1. FTPE provide these biology terms which all begin with the letter 'p.'
Literally meaning "cell eating," certain cells engulf food particles or other cells in this process.

Answer: **phagocytosis**

Meaning "false foot," it is a temporary extension used by an amoeba for eating or locomotion.

Answer: **pseudopod**

Also called thrombocytes, these are cell fragments in the blood which assist in clotting.

Answer: **platelets**

2. Answer these questions about the twentieth century Middle East:

(10) All or nothing, name the month and year in which the Six Day War occurred.

Answer: **June 1967**

(10) The air force of what country was destroyed on the ground during that war, leaving its tank columns unprotected?

Answer: **Egypt**

(10) Israel took control of this key area, whose altitude made it an important artillery site, from Syria.

Answer: **Golan Heights** [we'll accept Golan, even though Israel only took part of it]

3. Consider two sinusoidal waves of the same wavelength and amplitude on a stretched string.

1. For ten points, assume the waves are traveling in the same direction, but differ by a phase constant ϕ . For what value of ϕ does fully destructive interference occur?

Answer: **180 degrees or π radians.**

2. Now assume the waves are traveling in opposite directions. Name the resulting wave FTP.

Answer: **standing wave.**

3. For 5 points apiece, name both the points on a standing wave where the string is at rest and the points of maximum amplitude.

Answer: **node and antinode.**

4. Give the poem from the British Romantic Movement from lines for ten, or five if you need the author.

1 (10). One shade the more, one ray the less, / Had impair'd the nameless grace / Which waves in every raven tress, / Or lightens o'er her face.

(5) Lord Byron

Answer: **She Walks in Beauty.**

2. (10) "Five years have passed; five summers, with the length / of five long winters; and again I hear / These waters, rolling from mountain-springs."

(5) William Wordsworth

Answer: **Lines Written a Few Miles Above Tintern Abbey.** (also accept Composed for Written).

3. (10) "I met a lady in the meads / Full beautiful, a faery's child; / Her hair was long, her foot was light, / And her eyes were wild."

(5) John Keats

Answer: **La belle dame sans merci.**

5. If you factor in the change in ticket prices, Hollywood's all-time box office champion is still 1939's *Gone With the Wind*. FTSNOP name the performer who played each of the following characters:

a) 5 pts.: Scarlett O'Hara Hamilton Kennedy Butler

Answer: **Vivien Leigh**

b) 5 pts.: Rhett Butler

Answer: **Clark Gable**

c) 10 pts.: Melanie Wilkes

Answer: **Olivia de Havilland**

d) 10 pts.: Mammy, the first role to earn an acting Oscar for an African-American

Answer: **Hattie McDaniel**

6. FTPE, name each of the following concerning advisors of old rulers.
 1. Li Siu helped promulgate Legalism under this wall-building, book-burning Chinese ruler, the only emperor from the Ch'in dynasty.
Answer: Shih Huang Ti or Chao Cheng
 2. Kautilya, Hindu philosopher and author,, helped this king overthrow the Nanda to found the Maurya dynasty.
Answer: Chandragupta
 3. A vizier under Djoser, this physician is best remembered for his step pyramid.
Answer: Imhotep
7. Name these mountains on the Appalachian Trail FTPE.
 1. This 6,288 foot crag in the Presidential Range is the highest point not only in New Hampshire but in the northeastern United States. As an added bonus to hikers, it is also the windiest place on earth, recording a 231 MPH gust in 1934.
Answer: **Mount Washington.**
 2. The northern terminus of the Appalachian Trail is at this 5,267 foot mountain in Baxter State Park in Maine.
Answer: **Mount Katahdin.**
 3. Reaching 6,643 feet, this spot in Great Smoky Mountains National Park is the highest point on the trail
Answer: **Clingmans Dome.**
8. Name these metallic elements on a 10-5 basis:.
 1. (10) This alkaline earth metal has a high strength to density ratio, but is fairly brittle. One of the most common uses of it is in X-ray tube windows as it is almost transparent to X-rays.
(5) Its atomic number is 4.
Answer: **beryllium or Be.**
 2. (10) Its tenacious oxide film makes it very corrosion resistant, and it is commonly used in high temperature application. Its primary use is in stainless steels and is used to make high temperature superalloys.
(5) Its atomic number is 28.
Answer: **nickel or Ni.**
 3. (10) Chemically related to Rhenium, it is present in S-, M-, and N-type star but does not naturally occur on Earth. It is largely produced in nuclear reactors since it is a product of uranium decay.
(5) Its atomic number is 43.
Answer: **technetium or Tc.**
9. Name the opera from characters for 10 points, or 5 if you need the composer.
 - (10) Count Almaviva, Fiorella, Dr. Bartolo
(5) Gioachino Rossini
Answer: Il Barbiere di Siviglia_ or The Barber of Seville_
 - (10) Florestan, Leonore, Pizarro, Don Fernando.
(5) Ludwig Van Beethoven.
Answer: Fidelio.
 - (10) Zuniga, Don Jose, Mercedes, and Frasquita
(5) Georges Bizet
Answer: _Carmen_
10. Identify U.S. presidential elections by their years from descriptions FTPE or from the combatants for 5:.
 1. (10) The key issue was the coining of free silver. It was also notable that the victor spent twelve times as much money as the loser although the loser received more votes than any previous winner.
(5) McKinley vs. Bryan
Answer: **1896.**
 2. (10) This was the first election in which the "solid south" was lost, as the Democrats had trouble overcoming their anti-prohibition stance and the Catholicism of their candidate.
(5) Hoover vs. Smith
Answer: **1928.**
 3. (10) Manifest Destiny was the key issue and the dark-horse Democratic candidate won because he openly declared that Texas should be annexed.
(5) Polk vs. Clay
Answer: **1844**

11. It's time for "Choose your own bonus!" Which mystical discipline do you want – Buddhism or blackjack?

IF BUDDHISM: Name the forms of Buddhism from descriptions FTPE.

1. This is the largest sect of Buddhism popular in China and Japan. Its emphasis is on helping others to attain Nirvana before you attain it. This is because in their theory of reality and sensation we cannot distinguish between individual objects. This sect contains the Yagacara and Modhyamika schools.

Answer: **Mahayana.**

2. This form of Buddhism often associated with Phil Jackson or Robert Pirsig is a form of Mahayana focusing on meditation and conditioning. It is based on esoteric readings not part of the Buddhist canon.

Answer: **Zen.**

3. This form of Buddhism is popular in Mongolia and Tibet. It is the form of Buddhism headed by the Dalai Lama and thus is often called Lamaism. Westerners mostly know it for its emphasis on maintaining strenuous sexual positions.

Answer: **Tantric.**

IF BLACKJACK: Given your two cards and the dealer's up card tell whether your highest probability move is to hit, stand, double down, or spilt. FFPE. Note: these are based on Las Vegas rules with multiple decked shoes.

1. Dealer's up card is a nine. You have a six and a four.

Answer: **Double Down.**

2. Dealer's up card is a seven. You have a nine and an eight.

Answer: **Stand.**

3. Dealer's up card is an ace. You have two aces.

Answer: **Split.**

4. Dealer has a ten. You have a two fours.

Answer: **Hit.**

5. Dealer has a nine and you have two tens.

Answer: **Stand.**

6. The Dealer's up card is a ten and you are holding a nine and a seven.

Answer: **Hit.**

12. Answer questions about important players in the 1814-15 Congress of Vienna.

1. Austria's representative, he dominated the conference, and it was largely due to his influence that the resulting Europe was conservative, ignoring the nationalism and liberalism that had erupted around Europe during the Napoleonic Wars.

Answer: Prince Klemens von **Metternich.**

2. This ruler of Russia wanted an independent Poland with himself as its ruler. He also formed the "Holy Alliance" to keep the balance of power, but no one but himself took it seriously.

Answer: Czar **Alexander I.**

3. Because France was not allowed to be represented in the early stages of the meeting, this French foreign minister had an uphill climb in bringing France back into the ranks of great powers, after he was admitted.

Answer: Perigord **Talleyrand.**

13. Given characters from a memorable work of literature, name the work, for 10 points each:

(10) Yossarian, Snowden, Milo Mindbender, and Major Major.

Answer: **Catch-22**

(10) Ralph, Jack, Simon, Roger, and Piggy.

Answer: **Lord of the Flies**

(10) Arthur Radley, Mayella Ewell, Jean Louise Finch, and Tom Robinson.

Answer: **To Kill a Mockingbird**

14. 5-10-20-30, tell me the shape of each graph.

1. $x^2 + y^2 = 25$.

Answer: **circle.**

2. $3x^2 + 5y^2 = 47$.

Answer: **ellipse.**

3. $y = 3x + 4$.

Answer: straight **line**.

4. $y = 3$ times the quantity $x + 7$, quantity squared.

Answer: **parabola.**

15. College bound? If so, are you up on key ingredients of collegiate behavior? Given the name of a cocktail, tell which liquor is the main alcoholic ingredient FTPE, bonus 5 for all correct.

(A) Screwdriver

Answer: **Vodka**

(B) Martini

Answer: **Gin** (do not accept Vodka... a Vodka Martini has vodka. A Martini has gin.)

(C) Margarita

Answer: **Tequila**

(D) Rob Roy

Answer: **Scotch** (accept **Scotch Whiskey**, prompt on Whiskey)

(E) Old-Fashioned

Answer: **Whiskey** (accept Bourbon)

16. Answer the following related to Aeschylus's *The Oresteia* FTPE:

(10) Orestes' sister, she helps him avenge their father's death by plotting to kill their mom and stepdad.

Answer: **Electra**

(10) What 20th century playwright wrote *Mourning Becomes Electra*, a modern adaptation of the *Oresteia*?

Answer: Eugene **O'Neill**

(10) What 20th century poet wrote *The Family Reunion*, another modern adaptation of the *Oresteia*?

Answer: T.S. **Eliot**

17. Identify the important popes from clues FTPE.

1. This WWII pontiff has often been charged with collaboration and is referred to as Hitler's Pope despite the fact that he spoke out against the Nazis, albeit in veiled tones, and gave refuge to the hunted in the papal states.

Answer: **Pius XII.**

2. He was the greatest pope of the 5th century becoming a secular as well as a religious leader by negotiating with Attila to keep the Huns out of Rome in 451 A.D. He also condemned Dioscoros' monophysitism and the Council of Ephesus which upheld it.

Answer: **Leo I or Leo the Great.**

3. This 6th century pope defended Rome against the Lombards and sent a mission to convert England in 597. He is regarded as one of the Great Doctors for his writings *Miracles of the Italian Fathers* and *Pastoral Care*.

Answer: **Gregory I or Gregory the Great.**

17. Give the sociological term from its definition FTPE (definitions from Schaefer and Lamm's *Sociology*).

1. "The established standards of behavior maintained by a society."

Answer: **Norms.**

2. "Norms deemed highly necessary to the welfare of a society, often because they embody the most cherished principles of a people."

Answer: **Mores.** [pronounced *more-rays* but accept incorrect but plausible pronunciations]

3. "Norms governing everyday social behavior whose violation raises comparatively little concern."

Answer: **Folkways.**

18. Identify the French authors from clues FTPE.

1. Described as "the freest spirit who ever existed" he was a rapist and torturer who gave his name to a new word in the English language. While in prison he wrote the erotic works *The 120 Days of Sodom* and *Justine*.

Answer: Marquis **de Sade.**

2. He wrote *Chantecler* about a rooster that believes his singing causes the sun to come up as well as a tragedy about Napoleon's son. He is best known for his comedies which include *The Red Glove*, *The Romantics* and *Cyrano de Bergerac*.

Answer: Edmond **Rostand.**

3. Writing in the classical French tradition of Voltaire, his works include the hedonistic book of aphorisms *The Garden of Epicurus* and the novels *Revolt of the Angels* and *Penguin Island*.

Answer: Anatole **France** or Jacques Anatole **Thibault.**

19. Identify these scientific units for ten points each

It is the density of one weber of magnetic flux per square meter

Answer: **Tesla**

It is the work done per second by a current of one ampere flowing through a resistance of 1 ohm.

Answer: **Joule**

It is the amount of X- or gamma-radiation which will produce ions carrying 1 electrostatic unit of electricity of either sign in 1 cc of dry air.

Answer: **Roentgen**

20. 5-10-15, name the instrument for which the piece was composed.

1. (5) "Toccata and Fugue in D Minor" by J.S. Bach

Answer: **Organ.**

2. (10) "Hungarian Rhapsodies" by Franz Liszt

Answer: **Piano.**

3. (15) "Syrinx" by Claude Debussy

Answer: **Flute.**

21. Identify the interstate highway from cities it passes through 5-5-10-10.

1. Fargo, Sioux Falls, Sioux City.

Answer: **I-29.**

2. Albuquerque, Oklahoma City, Little Rock

Answer: **I-40.**

3. Helena, Butte, Salt Lake City.

Answer: **I-15.**

4. Akron, Charleston W.Va, Columbia, S.C.

Answer: **I-77.**