

Questions by the usual suspects with math help from Jason Carl Mueller, Univ. of Missouri

1. Like other mammals, the small bones of the inner ear are fully incorporated into the skull, though the ear itself is incorporated into a groove on the side of the head with the eyes. Unlike other mammals, it contains an extra shoulder bone and its average body temperature is a comparatively low 90° F. The only mammal belonging to the Order Monotremata, its genus name literally means “bird nose”. FTP, name this unique mammal native to eastern Australia.

Answer: duck-billed **platypus**

2. The law that was broken had been introduced by a legislator named John Butler earlier in the same year as the trial for the crime. The plot for the case was hatched in Fred Robinson’s drug store, and the conspirators originally wanted H.G. Wells to lead the defense, while the ACLU wanted former presidential candidate Charles Evans Hughes. But when another flamboyant former presidential candidate joined the prosecution team, Clarence Darrow chose to coordinate the defense. Taking place in Dayton, Tennessee, in 1925, FTP this was what trial of a high school biology teacher for teaching evolution?

Answer: Scopes Trial (accept **Monkey Trial**)

3. As a child he used to spend a lot of time playing with the Kindergarten educational blocks created by educator Friedrich Wilhelm August Fröbel, which may have informed his later career choice. An engineering-school dropout, he worked briefly under Joseph Lyman Silsbee before joining the firm of Adler and Sullivan. In the 1930s, affected by the Great Depression, he designed a series of simple homes for working-class people he called Usonian Homes, while thirty years earlier, he introduced the homes he called “prairie houses,” as part of his belief that architecture should flow naturally from the surroundings. FTP name this architect, whose most famous houses were Fallingwater and Taliesin.

Answer: Frank Lloyd **Wright**

4. “Oh! The Public” is one of this author’s few comic short stories. More serious examples include “The Steppe,” “The Black Monk,” and “A Dreary Story.” Better known as a dramatist, one of his famous dicta was, “If there is a gun hanging on the wall in the first act, it must fire in the fifth act.” A gun features prominently in one of his major dramas, in which the title bird is shot by Kostya. FTP name the Russian author of that play, *The Seagull*, as well as *The Three Sisters* and *Uncle Vanya*.

Answer: Anton **Chekhov**

5. This product is produced exclusively in Austria. All ingredients used for it are synthetically produced by pharmaceutical companies. Contrary to rumor, it does not contain any banned Vietnam-era military stimulants, nor does it contain bovine semen or testicles. Giving a cruel irony to its slogan, it has been implicated in the deaths of several people who were drinking heavy amounts of the product while engaging in strenuous exercise. FTP, name this energy drink that “gives you wings.”

Answer: **Red Bull**

6. Three efforts were made to colonize this New World location. The second built housing but arrived too late to plant crops, so many settlers returned to England when Francis Drake stopped by. The third expedition included 94 men and 17 women and made artist John White governor. It was during this effort that Virginia Dare was born. White returned to England for supplies, but when he returned in 1590, the settlers were gone with only the cryptic word “Croatoan” carved into a tree as a clue to their whereabouts. FTP name this island off Cape Hatteras that was the first English attempt at colonization in North America.

Answer: Roanoke Island

7. In writing his short work “Contribution to Optics,” this man observed various images painted on paper through a prism and analyzed the colored fringes on the boundary of what he saw—that short work was later incorporated into his longer *Farbenlehre*, or *Theory of Colors*. He also wrote dramatic works like *Stella*, *Clavigo*, and *Torquato Tasso*, as well as the story of a German robber-baron, *Gotz von Berlichingen*. FTP who was this German who led many Romantic young men to consider or undertake suicide with his *Sorrows of Young Werther* and who also wrote the verse drama *Faust*?

Answer: Johann Wolfgang von **Goethe**

8. In the minus type of this process, a neutron turns into a proton, an electron, and an antineutrino. The electron and antineutrino fly away from the nucleus, leaving it with one more proton than it started with. In the plus type, a proton turns into a neutron, a positron, and a neutrino. The positron and neutrino fly away from the nucleus, leaving it with one less proton than it started with. Since an atom loses a proton in the plus type, it changes from one element to another. FTP this describes what type of radioactive decay?

Answer: **beta decay**

9. This Latin prayer has been set to music numerous times. Among them is the version by Charles Gounod (1859), adding melody and words to Johann Sebastian Bach's first prelude from the Well-Tempered Clavier. The best known musical version, composed in 1825, was originally set to a German translation of an English poem, not to the Latin text commonly sung today. FTP name this musical prayer, whose third line is "benedicta tu in mulieribus," and whose best-known version was composed by Franz Schubert.

Answer: **Ave Maria**

10. Pencil and paper may be helpful. For a quick 10 points, and within 10 seconds, name the ninth Fibonacci number.

Answer: **34**

11. This writer studied psychology with William James at Radcliffe. She later attended Johns Hopkins medical school but didn't finish, instead moving to Paris to live with her brother Leo, an art collector with whom she was one of the first to collect Cubist and other avant garde works. Cubist principles influenced her early work, like the inscrutable aphorisms of *Tender Buttons* and the poem "Sacred Emily," which includes her well known formulation, "A rose is a rose is a rose. Known for coining the term "the Lost Generation," FTP who was this literary mentor to Hemingway and others and author of *The Autobiography of Alice B. Toklas*?

Answer: Gertrude **Stein**

12. A waiter at London's Carleton Hotel at the outbreak of World War I, he unsuccessfully petitioned the Versailles Conference for basic political liberties for his homeland. Late in World War II he cooperated with America's OSS in operations against the Japanese, and after the war he had sufficient control to proclaim a republic in Indochina with himself as President. He died of heart failure in 1969 and thus did not see the ultimate success of his efforts to unite his homeland under Communist control. FTP name this man, for whom the former Saigon was named after his followers won control of Vietnam.

Answer: **Ho Chi Minh** [accept **Minh**, even though that's not really his surname; also accept Nguyen Sinh Gung (his birth name) or Nguyen That Thanh, Nguyen Ai Quoc, or Nguyen the Patriot – man, I hate multiple aliases!]

13. Said to be the youngest of 18 children, he was lost from his family while crossing the river from which he got his nickname, and he was raised by coyotes. After being returned to human society by his brother, he taught the gophers to dig postholes and killed snakes by feeding them mothballs filled with nitroglycerin. His wife, Blue-Foot Sue, made the mistake of trying to ride his horse, and after being pitched nearly to the moon, kept bouncing on her steel-spring bustle, so he had to shoot her to save her from starving. The only one capable of riding Widowmaker, FTP who is this old-West, tall-tale character?

Answer: **Pecos Bill**

14. His 1999 book, "I Hate This Place: The Pessimist's Guide to Life," probably doesn't really show his true feelings for his home of New York City. At least, you would hope not, given the fame acting in the city has given him. He fulfilled a grade school "Most Likely" nomination in 2003 when he guest hosted for Dave Letterman. FTP, name this comedian, one of People Magazine's Top 50 Eligible Bachelors, currently staring with Queen Latifah in *Taxi*, but best known for his work on *Saturday Night Live*.

Answer: Jimmy **Fallon**

15. Its atoms are generally arranged hexagonally in sheets which are spaced 3.5 angstroms apart. A good conductor, it has a high melting point and it is used in electrodes in the production of aluminum. The loose bonding between sheets explains why it is so much softer than its more expensive allotrope, diamond. FTP, name this form of carbon which is used in pencils.

Answer: **graphite**

16. The group was formally constituted in 1929, published in the journal *Erkenntnis*, and dispersed after the German invasion of Austria in 1938. Leading members included Rudolf Carnap, Kurt Godel, and Moritz Schlick, with Karl Popper and Ludwig Wittgenstein on its fringes. FTP, name this group of philosophers who originated logical positivism, named for the city in which they formed.

Answer: Vienna Circle

17. His epithet at birth, "the God-given," stems from the seemingly miraculous nature of his conception, considering his mother, Anne of Austria, was estranged from his royal father at the time. Resentment toward his mother's status as regent upon the death of his father in 1648 led to the Fronde, an uprising of French nobility. FTP name this longest-reigning European monarch, who called himself the "Sun King."

Answer: Louis XIV

18. It appears a total of eleven times, ten of them as dialogue from the same character. The last time, it is paired with "that shadow that lies floating on the floor." It doesn't appear at all until the eighth stanza, in reply to the narrator's plea, "Tell me what thy lordly name is on the Night's Plutonian Shore!" FTP name this word, the only one spoken by the title character of Edgar Allan Poe's poem "The Raven."

Answer: "Nevermore"

19. Entering the Navy as a civil engineer in 1881, this Pennsylvania native was engaged in making surveys of Nicaragua for the canal that was never built there. He must not have liked the weather, for in 1886 he undertook the first of several missions to explore Greenland. His last trip remains controversial, as some sources say he did not reach his goal and others maintain he was beaten there by his former ship's surgeon, Frederick Cook. But FTP name the man credited by most sources with becoming in 1908 the first to reach the North Pole.

Answer: Robert Peary

20. Its virtues seem contradictory, as it is essential in devices that move especially large loads and also in making delicate adjustments, as in the micrometer and the carburetor. It is a relatively inefficient device, because it generates a great deal of friction and therefore much more work is put into one than received from it. Essentially it consists of an inclined plane wrapped around a solid cylinder. FTP name this commonly used simple machine.

Answer: screw

21. The first American example was the U.S.S. Akron, built in 1918 but completed too late for entry into WWI. The first ever was the Giffard, which debuted in France in 1852. The largest ever was 804 feet long and required seven million cubic feet of hydrogen, leading to its ultimate destruction. FTP name this type of craft which has rigid construction and is steerable, the most famous example of which was the Hindenburg.

Answer: dirigible (acc. Zeppelin; prompt on "blimp" as those are not rigid)

22. Radical Republican Thaddeus Stevens asserted of the decision in this Supreme Court case that although "not as infamous as the Dred Scott decision, [it] is yet far more dangerous in its operation." Stevens had little sympathy for the plaintiff, a Copperhead who had been sentenced to death for subversive activities in 1863, a verdict delayed by Lincoln and then appealed after Lincoln's assassination. The plaintiff had been sentenced by a military tribunal in Indiana, despite that state having its civilian courts operating. FTP name this important 1866 civil rights case.

Answer: Ex Parte Milligan

1. ID these suffragettes FTPE.

A. This author of “Woman’s Bible” is considered the main organizer behind the Seneca Falls Convention.

Answer: Elizabeth Cady Stanton

B. This black woman with the given name of Isabella Baumfree became associated with the phrase “Ain’t I a Woman” after using it repeatedly in an 1851 speech.

Answer: Sojourner Truth

C. This woman was brought to trial for trying to vote in 1872 and thus became immortalized on a dollar coin that nobody wanted to use, except your genial quizmaster, who liked it ‘cause you could get 5 games of pinball for using one.

Answer: Susan B. Anthony

2. Stuff about Plato FTPE.

A. In what Platonic dialogue is the death of Socrates described?

Answer: Apology

B. This is the metaphor Plato uses to describe human inability to see true forms, imagining humans changed in front of a fire, capable only of seeing shadows on the wall.

Answer: Allegory of the Cave (acc. “myth” or “figure” instead of “allegory”)

C. The Allegory of the Cave is found in this dialogue.

Answer: The Republic

3. Given a description of a law of thermodynamics, tell which one it is, FTPE.

A. For changes involving only perfect crystalline solids at absolute zero, the change of the total entropy is zero.

Answer: Third Law of Thermodynamics

B. If two bodies are each in thermal equilibrium with a third body, then all three bodies are in thermal equilibrium with each other.

Answer: Zeroth Law

C. The change in internal energy of a system is the sum of the heat transferred to or from the system and the work done on or by the system.

Answer: Second Law

4. In the mid-nineteenth century, a group of Russian composers, known collectively as The Five, brought Russia’s unique musical themes into the mainstream of European orchestral music. Answer the following about the Russian Five:

a. This naval captain turned composer wrote the opera The Tale of Tsar Sultan, which contains his most famous piece, Flight of the Bumble Bee.

Answer: Nikolai Rimsky-Korsakov

b. He is known for Night on Bald Mountain and Pictures at an Exhibition.

Answer: Modest Mussorgsky

c. Trained as a chemist, he composed the opera Prince Igor, which is most famous for its Polovtsian Dances.

Answer: Aleksandr Borodin

5. Name these John Steinbeck works, FTPE.

(10) In this novel, Cal and Aron are twins who clash when Cal tries to secure Adam Trask’s, his father’s, love. Cal ultimately causes Aaron to run off to war when he reveals the truth about their mother, Cathy Ames.

Answer: East of Eden

(10) Jody Tiflin is given a gift by his rancher father, which he names Gabilan. Caught in an unexpected rain, Gabilan catches a cold and dies. Jody watches buzzards alight on the body of his beloved pony, and he kills one of them.

Answer: The Red Pony

(10) Peopled by stereotypical good-natured bums and warm-hearted prostitutes living on the fringes of Monterey, Calif., this picaresque novel celebrates lowlifes who are poor but happy.

Answer: Cannery Row

6. My fighting ability has increased! I am now Super Saiyan Sub-metrosexual-Cell-evolved-hyper-squidfaced-Goku! Dragonball Z. Love it or hate it, it's influenced a whole lot of other cartoons, and not in a good way. So put on your pointy blonde wig and name these characters FTPE.

The son of Vegeta and Bulma, he forms Gotenks when combining with Goten

Answer: **Trunks**

A 300 year-old perverted Turtle Hermit who lives in a condo

Answer: Master **Roshi**

He's big, pink, and has both evil and good forms.

Answer: **Buu**

7. Given a South American country, name its capital FTSNOP.

(5) Chile

Answer: **Santiago**

(10) Uruguay

Answer: **Montevideo**

(5) Venezuela

Answer: **Caracas**

(10) Ecuador

Answer: **Quito**

8. Stuff about a certain South African author FTPE.

A. This man is best known for one novel, Cry, the Beloved Country.

Answer: Alan **Paton**

B. This Zulu tribesman and Anglican priest is the protagonist of Cry, the Beloved Country.

Answer: **Stephen** and/or **Kumalo**

C. Probably Paton's second-best-known novel, this other work focuses on an Afrikaner police officer's struggles with his desire for a black woman.

Answer: **Too Late the Phalarope**

9. Name the gas law from a brief statement of it FTPE:

a) Gases diffuse at a rate inversely proportional to the square root of their density. Or more simply put, light molecules diffuse faster than heavy ones.

Answer: **Graham's law**

b) At a given temperature, the volume occupied by a gas is inversely proportional to the pressure.

Answer: **Boyle's law** [accept **Mariotte's law**]

c) Applying only to ideal gases, it states that the pressure of a mixture of gases is equal to the sum of the partial pressures of the constituent gases.

Answer: **Dalton's law of partial pressures** [prompt on "law of partial pressures"]

10. Answer the following FTPE about the man for whom soon everything in the US will be named.

A. Ronald Reagan is the only US president to have been a member of a union, serving as president of what group?

Answer: **SAG** (or **Screen Actors Guild**)

B. Reagan chose George Bush to be his VP despite Bush's having (correctly) described Reagan's trickle-down ideas with this memorable two-word term.

Answer: **voodoo economics**

C. 138 of the Reagan administration's appointees either were indicted or resigned under ethical suspicions; my personal favorite was this Attorney General famous for a namesake report on pornography.

Answer: Ed **Meese**

11. Given the formula concerning a geometric shape, name the shape FTPE:

a) Its volume is equal to $\frac{1}{3}$ times the height times pi times the square of the radius of the base.

Answer: **cone**

b) Its area is $\frac{1}{2}$ the height times the sum of the long and short bases.

Answer: **trapezoid**

c) Its area can be determined by multiplying the square of the length of one side by 1.720.

Answer: **pentagon**

12. Given a song on the American Film Institute List of 100 Best Movie Songs, name the film in which it appeared FTPE and a bonus 5 for getting them all. But first, let Charlie vent: Exactly one of these was written for the film in question.

a. "As Time Goes By"

Answer: Casablanca

b. "Diamonds Are a Girl's Best Friend"

Answer: Gentlemen Prefer Blondes

c. "Fight the Power"

Answer: Do the Right Thing

d. "Some Enchanted Evening"

Answer: South Pacific

e. "Over the Rainbow" – the only one of these written for the film.

Answer: The Wizard of Oz

13. 5-10-20-30, Who led the delegations of each of the following nations at the Paris Peace Conference of 1919?

United States

Answer: Woodrow Wilson

France

Answer: Georges Clemenceau

Great Britain

Answer: David Lloyd-George

Italy

Answer: Vittorio Orlando

14. Identify these early American poets FTPE.

A. This woman's brother published some of her works under the title "The Tenth Muse Lately Sprung up in America" in 1650.

Answer: Anne Bradstreet

B. This poet, kept as a slave by a Boston merchant, became renowned for her Poems on Various Subjects, published in 1773.

Answer: Phyllis Wheatley

C. This revolutionary-era poet is best known for "The British Prison-Ship" and "The Wild Honey Suckle."

Answer: Philip Freneau

15. A 1928 lab mistake resulted in one of medicine's greatest discoveries. FTPE,

(10) Name the revolutionary antibiotic that was discovered when it was observed to inhibit the growth of a bacteria colony.

Answer: penicillin

(10) The observation was made by this Scottish scientist who shared in the 1945 Nobel Prize for his discovery and early work.

Answer: Alexander Fleming

(10) Penicillin was first observed to prevent the spread of this bacteria which is the second most common cause of bacterial infections in the U.S.

Answer: Staphylococcus

16. Answer the following about a certain Athenian leader FTPE.

A. Under the leadership of this man, the Parthenon and other buildings on the Acropolis were erected.

Answer: Pericles

B. Under Pericles rule in 454 the headquarters of this strategic alliance was moved from its namesake island to Athens.

Answer: Delian League

C. Pericles' famous funeral oration is recorded in the major work of this historian.

Answer: Thucydides

17. Given the name of a polyatomic ion, provide its formula for 5 pts. and the charge for another 5:

A. chlorate

Answer: ClO_3 (-1 charge)

B. peroxide

Answer: O_2 (-2 charge)

C. permanganate

Answer: MnO_4 (-1 charge)

18. Answer the following about the series of works called *Le Comedie Humaine*, or The Human Comedy FTPE.

A. First, who wrote it?

Answer: Honore de **Balzac**

B. One of the best known of the series, this novel with a theme similar to King Lear focuses on a title father who slowly loses his fortune as well as his friends and daughters while boarding at Madame Vanquer's home.

Answer: ***Pere Goriot*** (acc. ***Old Goriot***)

C. Finally, what American author also wrote a novel with the title The Human Comedy?

Answer: William **Saroyan**

19. 30, 20, 10: name the artist given the title and dates of work produced by him.

30: Corridor in the Asylum, 1889

20: The Night Café, 1888

10: Self Portrait with Bandaged Ear, 1889

Answer: Vincent Van **Gogh**

20. ID these Hindu terms from Hinduism FTPE.

A. This is the cycle of birth, death, and re-birth from which Hindus strive to be liberated by trying to live properly.

Answer: **Samsara**

B. One of the purusharthas, or legitimate goals of life, is this one, which can be roughly translated as living properly.

Answer: **Dharma**

C. This is the term for the liberation from Samsara, the attainment of not-being.

Answer: **Moksha**

21. Name these well known submarines FTPE.

A. Named for a marine reptile, David Bushnell built this single-man sub in 1776, but it failed to sink the HMS Eagle in the Revolutionary War.

Answer: **Turtle**

B. Though this Confederate sub sank the USS Housatonic, it sunk soon thereafter. It has recently been raised and will be displayed in Charleston.

Answer: **Hunley**

C. In 1954 this first nuclear-powered sub was launched by the U.S.

Answer: **Nautilus**