

1. (DU/JV) The duet Andy Dufresne played in the film *The Shawshank Redemption* came from this Opera. That duet, called *What a Gentle Breeze*, is between Susana and the Countess Rosina, and is done as the Countess gives Susana a letter to give to the Count Almaviva. This is just one of the strange occurrences in this comedy, which is probably why it is also called *The Crazy Day*. FTP; name this Mozart opera, a sequel, which tells of the wedding day of a local hairstylist.

Answer: *The Marriage of Figaro* (accept *Le Nozze di Figaro*)

2. (UNC/CS) As derived from the atomic Hamiltonian, these are sometimes described as “degenerate” but they have nothing to do with morality! They exist when principal quantum number is at least 2, and are described by an orbital/azimuthal quantum number of 1. For 10 points, name these dumbbell-shaped atomic orbitals.

Answer: **p orbitals**

3. (NGC) Included in this collection are the stories “Servants of the Queen” and “Toomai of the Elephants,” information for which being provided by Bahadur Shah, baggage elephant 174. Though not by William Blake, it contains a work called “Tiger, Tiger” as well as the tale “Rikki-Tikki-Tavi.” For ten points, name this collection which introduced the characters of Baloo, Shere Khan, and Mowgli.

Answer: The Jungle Book I or the Jungle Books

4. (NGC/CS) One can see his influence in the protagonist of Alan Moore’s *V For Vendetta*. Born a Protestant, he enlisted in the Spanish army in Flanders twelve years before joining an effort led by Robert Catesby. This Roman Catholic was caught with incriminating evidence in the cellar underneath the House of Lords. For ten points, name this co-leader of the Gunpowder Plot whose effigy is burned in Great Britain every November 5th.

Answer: **Guy Fawkes**

5. (NGC/CS) Begun in 1995 by Pierre Omidyar, among its restricted or prohibited items are human parts, Nazi paraphernalia, and dirty used clothing. It opened an Express site in April 2006 to allow customers to shop from multiple sellers, though sadly Pope Benedict XVI’s Volkswagen Golf and Britney Spears’ chewed gum have already been won. For ten points, identify this online auction site.

Answer: eBay.com

6. (AR/JV) The main characters first meet at Netherfield Ball where they take a near immediate dislike towards one another. Originally called “First Impressions,” this 1813 novel contains the famous opening line, “It is a truth universally acknowledged, that a single man in possession of a good fortune must be in want of a wife.” Main characters Elizabeth Bennett and Fitzwilliam Darcy finally overcome the two title feelings in, FTP, this novel by Jane Austen.

Answer: **Pride and Prejudice**

7. (NGC/CS) Not counting the 1976 award, which went belatedly to Betty Williams and Mairead [MY-RAID] Corrigan in 1977, , it has gone unawarded fourteen times over the past 105 years including the years between 1914-1916 and between 1939-1943. It was alsodeclined by one of the two co-recipients in 1973. Recent honorees have included John Hume and David Trimble from Northern Ireland and Jody Williams from the International Campaign to Ban Landmines. For ten points, name this award.

Answer: **Nobel Peace Prize** (accept equivalents containing Nobel and Peace)

[Ed. note: Because the 1976 award was delayed, Mairead Corrigan was not yet a Nobel winner when her conversation with a Tennessee teenager on a tour bus at Sea World left your future genial quizmaster quite smitten with her.]

8. (AR/JV) A version of this law applies in geophysics to the solubility of a noble gas in a silicate metal. Its discoverer was a late-18th and early-19th century apothecary and writer on chemistry in Manchester England. In his best-known paper, he describes experiments on the amounts of gas that are absorbed by water at different temperatures and pressures. The conclusion he draws, FTP, is his namesake law that states at constant temperature, the quantity of gas dissolved in a certain volume of a particular liquid is directly proportional to the partial pressure of the gas in equilibrium with the liquid.

Answer: **Henry’s Law**

9. (Sh/SK) The term was the invention of Alexander Baumgarten in 1735 and first appeared in English in the works of David Hume, and among the modern philosophers famous for work in this area is Monroe Beardsley, who is no relation to Aubrey Beardsley an illustrator and member of the English Decadents which took this name. Its name is derived from a Greek term meaning "able to be perceived", and it is essentially concerned with perception but specifically with what distinguishes perception of things such that some things are considered ugly and revolting and others the opposite. For ten points, give this term, usually defined as the study of beauty and specifically art and the properties of a system that appeal to the senses.

Answer: Aesthetics

10. (UNC/CS) His mother named him "God will increase," hoping that many sons like him would follow, as she was currently being outdone by her sister Leah; he did not meet his only full brother until many years later, when his family made their way to Egypt during a famine in order to purchase food from, for ten points, which man who had risen to power after interpreting the Pharaoh's dreams, the son of Jacob and Rachel and brother of Benjamin?

Answer: Joseph

11. (Sh/CS) He served in Goa under Almeida and Albuquerque. While serving in Morocco he was wounded in the Battle of Azamor, then was accused of financial improprieties and lost the favor of Manuel I. Finding a new patron in Carlos I of Spain, he left two ships behind in South America. A third, the *Concepcion*, was burned as unseaworthy, while the *Trinidad* was sent back to Panama but was abandoned en route with only four survivors. Juan Sebastian Del Cano ultimately brought the *Victoria* home, completing the mission after its mastermind was killed in the Philippines. FTP name this Portuguese maritime explorer who led the first successful attempt to circumnavigate the globe.

Answer: Ferdinand Magellan

12. (AR/JV) This young man from Minnesota, after education at Yale and service in World War I, goes to New York to learn the bond business. Kind, honest and tolerant, he often serves as a confidant for people's troubling secrets. After moving to a part of Long Island for the *nouveau riche*, West Egg, this cousin of Daisy Buchanan helps to rekindle the romance between Daisy and the main character. FTP name this narrator of F. Scott Fitzgerald's *The Great Gatsby*.

Answer: Nick Carraway [accept either first or last name]

13. (AR/JV) Born into a wealthy Anglo-Jewish family, her great uncle was Herbert Samuel, who was the first practicing Jew to serve in a British Cabinet Position as Home Secretary. In 1950 she was appointed to a position at King's College London, where she worked in the Biophysics unit under Maurice Wilkins. Photographing the fine structure of coal and the tobacco mosaic virus, her most important discovery went largely unrecognized by the mainstream scientific community. A recent biography entitled *The Dark Lady of DNA*, recounts this controversy. FTP name this female physical chemist responsible for taking the photographs that would lead to the discovery of the double-helix structure of DNA.

Answer: Rosalind Franklin

14. (AR/JV) It is currently chaired by Bill Thomas of California; the ranking Democrat is Charles Rangel from New York. Before 1802 only ad hoc committees were created, and in 1865 its ability to appropriate funds was spun off into another committee. Some of its secondary responsibilities are the enforcement of Child Support laws as well as foster care and support programs. All bills regarding taxation must pass through, FTP, what committee with jurisdiction over most revenue-raising measures, whose analogue in the Senate is the Finance Committee?

Answer: House Ways and Means Committee

15. (JK) The title location can be found at 1123 Wilson Way. One of the show's main characters has a friend who is lactose intolerant but still shows a particular fondness for chocolate milk. In tribute to creator Craig McCracken's earlier works, another one of the main characters wears a *Powerpuff Girls* shirt. Other notable residents include an athletic optimist with a stump for a left arm, a monster who is a scaredy-cat, and a rabbit who attempts to instill a sense of order among everyone. Also featuring best friends Mac and Bloo, for ten points, identify this Cartoon Network show about a house where pals created by children can go after their creators have outgrown them.

Answer: Foster's Home for Imaginary Friends

16. (NGC/CS) The 9th chapter of this man's famous 13-volume work contains a proof that the number of primes is infinite. His fifth axiom states that, through any one point, only one straight line can be drawn parallel to another straight line. For ten points, who was this author of *Elements* and namesake of a branch of geometry that deals with flat surfaces and plane figures?

Answer: **Euclid**

17. (JK/JV) Although the title could refer to Beelzebub, it actually appears in the work as a sow's head. One of the turning points of this novel is when a character goes up a mountain to discover a dead parachutist and realizes that his and his compatriots' fears were misfounded. When he returns to tell his friends, they are in the middle of a carnal feast and decide to kill him, turning him into a Christ-figure. That character, Simon, was the first victim of Jack's violence, but Piggy was later killed while Ralph is saved at the last minute by a naval officer who rescues the boy from the island. This describes the plot of, FTP, what novel by William Golding?

Answer: **Lord of the Flies**

18. (OK/DM) In ancient amphibians, it was exposed to the sun via a large opening in the animal's skull. Rene Descartes thought it to be the seat of the soul in humans, falsely believing no other animals to possess them. It is believed to possess a hormone which deters development of the reproductive glands and is also responsible for the production of melatonin. FTP, what is this tiny, pea-sized gland and part of the epithalamus?

Answer: **Pineal Gland or Epiphysis**

19. (UNC/CS) It is located on a plain and is surrounded by mountains on three sides. A traditional center of sporting activity, it is set to host its third UEFA Champions League final in 2007, in a stadium more famously used three years prior. It is not located directly on its nearest major body of water; historically this city has been served by its port city, Piraeus, which lies about five miles to the southwest. One of the most important cities in southeastern Europe is, FTP, this capital and largest city of Greece.

Answer: **Athens**

20. (NGC/CS) The only Republican among the "Keating Five" whose ethics came under fire for close association with failed savings and loans, he has taken a bipartisan approach on some key legislative goals, such as his collaboration with Russell Feingold on a long-running crusade for campaign reform. Graduating 895th of 900 at the US Naval Academy in 1958, he served as a pilot aboard the Forrester and the Oriskany in Vietnam prior to being shot down in 1967. He remained a POW for five and a half years, and that experience has influenced his stand regarding interrogation and detention in the War on Terror. For ten points, name this senator from Arizona.

Answer: John **McCain**

21. (NGC/CS) Scottish surgeon James Braid coined the term now used, but Austrian physician Franz Mesmer called it "animal magnetism." While some believe it to be simply an example of focused attention or role-playing, others claim that the individual's suggestibility results from an altered state of consciousness. For ten points, name this trance-like condition sometimes used for accessing the subconscious mind.

Answer: **Hypnosis** (accept forms of the word)

22. (UNC/CS) Located on the thylakoid membrane of a chloroplast, these are the active sites for the Light reactions. Two in number, they are responsible for the absorption of light and production of a proton gradient for ATP synthesis. FTP, name these protein complexes used in photosynthesis.

Answer: **photosystems** or **photosynthetic reaction centers**

1. (NGC) Identify the following about an event in American history, for ten.

a) In this March 1770 event, British troops fired on a crowd of demonstrators, killing five men.

Answer: Boston Massacre

b) This future president successfully defended eight soldiers involved in the Boston Massacre.

Answer: John Adams (prompt on "Adams")

c) Most historians believe this man killed in the Boston Massacre was a runaway slave.

Answer: Crispus Attucks

2. (Sh/CS) FTPE name the Greek playwrights from works:

Electra, Antigone, Oedipus Rex

Answer: Sophocles

Medea, The Trojan Women

Answer: Euripides

Prometheus Bound, the Oresteia

Answer: Aeschylus

3. (Sh/SK) Given their chemical names of the following acids, give their more common names, 5 points each.

1. Sulfuric Acid

Answer: H₂SO₄ (H two S O four)

2. Hydrochloric Acid (accept Muriatic Acid)

Answer: HCl (H C L)

3. Perchloric Acid

Answer: HClO₄ (H C L O four)

4. (UNC/CS) Answer these questions about sacraments of the Catholic Church, for ten points each.

Catholic children typically start receiving this sacrament around the second grade; at this point, they partake of the Body of Christ for the first time (after bread has undergone transubstantiation).

Answer: Communion or the Eucharist

This sacrament has four components – feeling sorry for a sin, confessing to a priest, being absolved by the priest, and satisfaction.

Answer: Reconciliation or Penance

Like Holy Orders, this is a sacrament of vocation, providing those who do not wish to enter the priesthood with a means of strengthening the church.

Answer: Matrimony or Marriage

5. (SG/SK) One of several smaller versions made of it stands on the Seine facing westwards towards the larger version, whose face was supposed to have been that of the mother of its sculptor, Frederic Bartholdi. For 10 points each:

1. Name this statue in the mouth of the Hudson river.

Answer: Statue of Liberty

2. The frame for the statue was designed by what architect?

Answer: Gustave Eiffel

3. Name the poem by Emma Lazarus that is found at the base of the statue urging that the world's tire, poor, and hungry be given to America.

Answer: "The New Colossus"

6. (AR/JV) Name these parts of the cell, FTPE.

(10) The jelly-like material that fills cells, it is composed of water, salts, and enzymes.

Answer: **Cytoplasm**

(10) This organelle composed partially of RNA; it translates messenger RNA into polypeptide chains and often floats freely in cytoplasm.

Answer: **Ribosome(s)**

(10) This organelle is found in all eukaryotic cells, it is responsible for modifying proteins and transfers substances throughout the cell. It consists of an extensive membrane network of tubes and cisternae within a cytoskeleton. It comes in two varieties, smooth and rough.

Answer: **Endoplasmic Reticulum or ER**

7. (JK) One of the interesting features of the Nintendo DS is the ability to play games online at most Wi-Fi hotspots via the Nintendo Wi-Fi Connection. Identify these titles supported by the service for ten points each.

A. One of the more popular games on the service is the DS version of this franchise that features Mario and pals racing around tracks and dodging the shells and banana peels lobbed at them by opponents.

Answer: **Mario Kart DS**

B. One of the newest games to support the Nintendo Wi-Fi connection is this recent installment of the Star Fox series. The single-player game incorporates turn-based strategy elements that give the game its name.

Answer: **Star Fox Command**

C. The latest game in this series is subtitled *Dark Secret* and allows players to barter items over the Wi-Fi Connection. Unfortunately, the game has received less-than-stellar reviews, many of which cite the disappearance of the stealth-based ninja gameplay that has driven previous incarnations of the series.

Answer: **Tenchu: Dark Secret**

8. (DU/JV) Name these Edgar Allan Poe works by their first lines FTPE.

(10) Once upon a midnight dreary, while I pondered, weak and weary

Answer: **The Raven**

(10) The thousand injuries of Fortunato I had borne as I best could,

Answer: **The Cask of Amontillado**

(10) TRUE! nervous, very, very dreadfully nervous I had been and am; but why WILL you say that I am mad?

Answer: **The Tell-Tale Heart**

9. (DU/JV) Name these men related to the Battle of Little Bighorn FTPE.

(10) He was the commander of the Native American forces at the battle.

Answer: **Crazy Horse**

(10) He was the commander of the 7th Cavalry during the battle.

Answer: **Lt. Col. George Armstrong Custer**

(10) Custer had 3 other officers command smaller contingents of the 7th in an attempt to surround the Lakota-Cheyenne army. Name one FTP.

Answer: **Major Marcus Reno or Captain Fredrick Benteen or Captain Thomas McDougal**

10. (NGC) Pencil and paper may be required. You are given two numbers: 11,011 and 10,010. Doing the subtraction is easy in the decimal or base ten system. For fifteen points each, give the decimal equivalent of the difference if the numbers are in:

a) Binary or base two.

Answer: **9** [(16+8+2+1) – (16+2) = (27-18) = 9]

b) Base three

Answer: **28** [(81+27+3+1) – (81+3) = (112-84) = 28]

11. (UTK/SK) Name the historical figure from clues on a 30-20-10 basis.

1. (30 points) He was impetus for the building of New York's Grand Central Station, where his statue still stands, reflecting his later business ventures later continued by his son.

2. (20 points) He amassed his fortune in shipping and by the 1840's he controlled all coastal trade along coast of New England. During the California Gold Rush he ran a steamship line from New York to California via Nicaragua.

3. (10 points) His iron-fisted control of his shipping and railroad businesses earned him the nickname "Commodore", a name later borne by the sports teams of the respected university in Nashville, Tennessee for which he provided some function.

Answer: Cornelius **Vanderbilt**

12. (UNC/CS) You know what we need in quiz bowl? More dinosaur bonuses. Identify the following creatures FTPE:

10: Larger than *Diplodocus* and now more commonly known as *Apatosaurus*, this dinosaur genus meaning 'thunder lizard' is classically known for its long, thick neck and tail, both of which were often kept low to the ground.

Answer: **Brontosaurus**

10: With a name meaning 'strange lizard', this late Jurassic creature stood on two legs and had distinctive bony knobs over each eye. It was similar in shape to *Tyrannosaurus Rex*, but smaller.

Answer: **Allosaurus**

10: This is the most famous of the 'feathered dinosaurs', with broad, rounded wings, a long tail, and jaws with sharp teeth. Its name comes from the Greek for 'ancient' and 'wing', but considerable leeway will be given in its pronunciation.

Answer: **Archaeopteryx** (pron. 'arkeopteryx', but accept remotely reasonable variants)

13. (Sh/SK) Incredibly prolific, amongst this artist's enormous musical output includes such pieces as "Tocatta in Fugue" and *St. Matthew's Passion* as well as the works collected in his *The Art of Fugue* and *The Well-Tempered Clavier*. For 1 the stated number of points:

1. (5 points) Name this landmark composer and patriarch of a musical family that also included his sons Carl Philip Emmanuel and Johann Christian.

Answer: Johann **Sebastian Bach** (prompt on "Bach")

2. (10 points) Some of Bach's most famous works are the six concerti which bear the name of the Margrave of this German principality which includes Potsdam, Frankfurt, and the namesake city.

Answer: **Brandenburg**

3. (15 points) This particular work, BWV 998, was written for a certain Count Hermann Karl von Keyserling, who employed the namesake harpsichordist to use the pieces based around a central theme to entertain him at bedtime.

Answer: **Goldberg Variations**

14. (DU/JV) *Anchorman* may be the most quoted movie in our present day. That's why this question will not cover quotes. Instead, FTPE, answer these questions about Ron Burgundy and his "life" during the movie.

(10) Burgundy's "little gentleman," this Benji look-alike helps save the day when Veronica and Ron fall into the Grizzly Bear pit while trying to film Ling Ling's birth at the San Diego Zoo. Did we mention that he got kicked off the bridge by Jack Black earlier in the film?

Answer: **Baxter**

(10) Burgundy's rival throughout the movie, he is the lead anchor of the Channel Nine News team. This character, played by Vince Vaughn, hates Burgundy as a man, but respects him as a journalist.

Answer: **Wes** and/or **Mantooth** (Accept either name)

(10) "I like to eat ice cream, and I really enjoy a nice pair of slacks." "Do you wanna come to the pants party?" "There were horses, a man on fire, and I killed a guy with a trident!" These are all quotes from what weatherman played by Steve Carrell, who is technically mentally retarded with an IQ of 48.

Answer: **Brick** and/or **Tamland** (Accept either name)

15. (AR/JV) Name these poems by Robert Frost FTPE.

(10) Perhaps the most well-known of Frost's poems, it begins with the line "Two roads diverged in a yellow wood"

Answer: The **Road Not Taken**

(10) It begins with the line "The land was ours before we were the land's" and was recited by Frost at the inauguration of John F. Kennedy.

Answer: The **Gift Outright**

(10) A celebration of rural New England, this poem begins "My long two-pointed ladder's sticking through a tree toward heaven still."

Answer: **After Apple-Picking**

16. (OK/SK) According to the CIA World Fact Book in 2000, an international consortium agreed to the naming of a new sea. For 10 points each:

1. Give either of the two acceptable names for this ocean which surrounds a land mass notable for such features as Queen Maud Land, Marie Byrd Land, and the Shackleton, Ronne, and Amery Ice Shelves.

Answer: **Southern** or **Antarctic** Ocean

2. Lying in the Southern Ocean between Marie Byrd Land and Victoria Land, this sea is noted for the presence of McMurdo Sound and Mt. Erebus, a major volcano on a namesake island, as well as for the best known and largest Antarctic Ice Shelf which covers a great deal of it.

Answer: **Ross** Sea

3. Located along the coast of Marie Byrd Land between Cape Dart and Thurston Island, this sea was named by a Norwegian team for a countryman who led the first successful expedition to the South Pole.

Answer: **Amundsen** Sea

17. (Sh/CS) FTPE, name these ancient Greek philosophers

This student of Leucippus postulated that all things were composed of tiny particles called atoms, though he thought they were all of the same material and differed only in size, shape, and weight.

Answer: **Democritus**

Emphasizing logic as the essential tool for all inquiry, he considered philosophy to be the discerning of the self-evident, changeless first principles that form the basis of all knowledge. His extant writings include *Physics*, *Metaphysics*, *Poetics*, and *Nicomachean Ethics*.

Answer: **Aristotle**

This Ephesian asserted that there was no permanent reality except change and believed that no man had an individual soul, but that all shared in a universal soul-fire.

Answer: **Heraclitus**

18. (AR/JV) Name these female Science Fiction/Fantasy authors from description, FTPE.

(10) Attending the same high school as Philip K. Dick, she has won several Hugo and Nebula awards including ones for "The Left Hand of Darkness" and "The Dispossessed", though she may be more familiar for her Earthsea novels

Answer: Ursula K. **LeGuin**

(10) Known affectionately in some literary circles as MZB, this feminist fantasy author is most recognized for her contribution to Arthurian Legend, *The Mists of Avalon*.

Answer: Marion Zimmer **Bradley**

(10) This American has recently been working on her *Acorna* series but is better known for a series that her son, Todd, has worked on, the *Dragonriders of Pern*.

Answer: Anne **McCaffrey**

19. (UNC/CS) FTPE, given a European war, name the treaty that ended it.

10: Crimean War

Answer: Treaty of **Paris**

10: War of the Spanish Succession

Answer: Peace (or Treaty) of **Utrecht**

10: Thirty Years War

Answer: Peace (or Treaty) of **Westphalia**

20. (UNC/CS) For ten points each, name these quantum quantities of atomic electrons:

A. Often associated with several equal-energy shapes for a given suborbital p, d, or f this has both plus and minus integer values.

Answer: m_l or magnetic quantum number

B. Resulting from an intrinsic property of particles, this number may have a value of +1/2 or -1/2 for an electron.

Answer: spin

C. With values from zero up to n minus 1, this number describes an energy and determines s,p,d or f nature.

Answer: orbital quantum number OR azimuthal quantum number OR angular momentum quantum number

21. (UNC/CS) The authors of this question are in college and thus can't keep up with current pop culture, so try your hand at these questions regarding an enduring classic, FTPE.

10: First, what was the 1985 flick that featured Molly Ringwald and Emilio Estevez as two of five characters doomed to a Saturday detention?

Answer: The Breakfast Club

10: At the end of the film, 4 of the 5 students pair up. What stereotype characterizes Brian, the one still single at the end of the day?

Answer: geek/nerd/dork/brain/et cetera

10: Finally, what was Bender's catchphrase, a slogan later taken on by one Bart Simpson?

Answer: "Eat my shorts"