

1. Even before his major achievements, he was satirized in the Gilbert and Sullivan operetta *Patience* for his advocacy of “art for art’s sake.” His works included two collections of fairy tales and two historical tragedies, *The Duchess of Padua* and *Salome*. His purported last words disparaged the wallpaper in the room where he died. FTP, name this author of such plays as *A Woman of No Importance* and *The Importance of Being Earnest*.

Answer: Oscar Wilde

2. On November 6, 2005, he was sentenced to two years in prison for causing a car crash that killed one person and injured several others. He attended college at MIT, switching his major to physics in his junior year, and he did his graduate work at the University of Illinois under John Bardeen, with whom he is now inextricably linked. While there, he developed equations to describe the ground state of superconducting atoms, his contribution to the theory that bears his name. FTP, name this man who shared with Bardeen and Leon Cooper the 1972 Nobel Prize in physics.

Answer: John Robert Schrieffer

3. With some influence from the Melvins’ bassist Dale Crover, they formed in 1987 and played under the names Fecal Matter, Pen Cap Chew, and Stiff Woodies before settling on their eventual name. Their second and most famous album was produced by Butch Vig and replaced Michael Jackson’s *Dangerous* at the top of the Billboard charts. They recorded one more studio album before the suicide of their lead singer, a depressed heroin addict. FTP, name this Seattle band whose hit *Smells Like Teen Spirit* launched the grunge movement.

Answer: Nirvana

4. They assembled in Senate Square one winter morning after the death of Alexander I. They were reacting to the ascension of Alexander’s brother, Nicolaus, to the throne. Although Constantine was next in line, he renounced his claim because of his marriage to a non-royal. These people, however, refused to swear allegiance to Nicholas because they supported a Russian constitution. FTP, name this group of rebels named after the month in which their protest started and who were not fronted by Colin Meloy.

Answer: the Decembrists

5. In the notation of quantum mechanics, it is signified by a “dagger” superscript following the matrix in question. In linear algebra, it is signified by a capital H in the same position. It is sometimes signified by an asterisk, but this leads to confusion with a related mathematical concept. If a matrix equals its related matrix of this type, it is called Hermitian—a property shared by all physical observables. FTP, name this kind of matrix that is obtained by taking the transpose of a matrix and then the complex conjugate of each element.

Answer: adjoint matrix (accept conjugate transpose before “transpose.” Do not accept complex conjugate)

6. He made his most famous discovery on this date (Apr. 22) in the year 1500, but was mistaken about its nature, and named it A Ilha (*EEL-yah*) de Vera Cruz after he discovered that it lay east of the Line of Demarcation. He proceeded around the Cape of Good Hope to Mozambique and all the way to India, returning with only four of his original thirteen ships. Chosen by King Manolo I of Portugal to continue Vasco da Gama’s work in developing commerce and trade in the East Indies, FTP name this explorer who was either changing his route to avoid storms or, as some allege, blown way off course when he discovered Brazil.

Answer: Pedro Álvares Cabral

7. The first chapter of this long-winded novel tells about a rose and does absolutely nothing whatsoever to advance the plot. Before that is a preface titled “The Custom House” in which a fictionalized version of the author claims to have come across documents that relate this story. In it, a jealous husband exacts cold-hearted revenge on his adulterous wife’s lover, the outwardly righteous but actually hypocritical minister. An intricately embroidered ruby character from the Roman alphabet is the title object in, FTP, what really really boring novel by Nathaniel Hawthorne?

Answer: The Scarlet Letter

8. Some thought it foretold nuclear war, and that's why it wasn't released in 1941 with the others as was originally promised. In 1984 the future Pope Benedict XVI, Joseph Ratzinger, wrote that it foretold the dangers to Christianity in the end times, while Pope John Paul II thought it referred to his attempted assassination by Mehmet Ali Agca. The text was finally released in 2000 during the Pope's visit to Portugal. FTP name this prophecy, the last in a series originally made by the ten-year-old Lúcia Santos.

Answer: the third secret of (Our Lady of) Fátima

9. The particles formed by this type of nuclear radiation can be blocked by a few micrometers of dead skin or even just a few centimeters of air, making them less dangerous to their surroundings than other forms of radiation, because they are the only radiation products with a substantial mass. It is a special type of nuclear fission in which the other daughter nucleus has an atomic weight that is 4 units smaller and an atomic number that is 2 units smaller than the parent's. FTP, identify this class of nuclear radiation, the source of most of the United States' helium production.

Answer: alpha decay

10. (OU) From 1977 to 1980 it was known as the National Statesman Party; a split developed in 2004 between the supporters of long-time party leader Earl Dodge and supporters of Gene Amondson, who ran under the banner of the Concerns of People Party. The party was founded in 1867 and in 1887 Susanna Salter, one of its candidates, became the first woman elected mayor in the US. FTP, name this party which temporarily attained its major goal with the passage of the 19th Amendment and subsequently faded as an important American political faction.

Answer: Prohibition Party

11. This work's first chapter is the protagonist's first-person account of how he and his love interest threw a broken umbrella off a bridge, and details his frantic search for a fallen sugar cube on a restaurant floor. Containing 155 chapters, 99 of which the author designates as "expendable", it recounts an Argentinian expatriate's experiences in Paris and his subsequent return to Buenos Aires, where he meets up with his old friend named Traveler. FTP name this novel featuring Horacio Oliveira and la Maga, the most famous novel by Julio Cortázar.

Answer: Hopscotch or Rayuela

12. In 1958, 24 years after graduating from Yale, he used principles of suspension-bridge construction in designing his alma mater's hockey rink. Other colleges for which he designed buildings included Concordia College in Ft. Wayne, Vassar, and the University of Chicago. He died of a brain tumor at age 51 before the completion of Dulles International Airport, but perhaps his most famous work is based on the graph of an inverse cosine function, making an inverse catenary shape. FTP, name this architect who designed the Jefferson National Expansion Memorial, better known as the Gateway Arch.

Answer: Eero Saarinen [prompt on Saarinen – his father Eliel was also a noted architect]

13. This University of Montreal graduate's interest in Marxism in the 1940s caused him to be blacklisted by the United States. As Minister of Justice, he revoked laws against homosexuality. As his nation's fifteenth Prime Minister, he is remembered for the implementation of federal bilingualism as well as his affable relations with Fidel Castro, often wearing sandals in the House of Commons, and doing a pirouette behind Queen Elizabeth II's back. FTP, name this flamboyant liberal who served as Canada's PM for all but one year from 1968 to 1984.

Answer: Pierre Trudeau

14. This flight left from Gate 23 and was scheduled to be 16 hours long. After several instrument failures, its pilots attempted to land 1000 miles off-course in Fiji, but never reached their destination. John Locke was one of the survivors from the front of the plane, along with Jack, Kate, and Charlie. FTP, name this flight whose plane crashed on a mysterious island, as featured in the television series *Lost*.

Answer: Oceanic Flight 815

15. 5-dehydro-*m*-xylylene is the first known organic molecule to violate this as its ground state contains an open-shell doublet instead of a quartet. Electrons in partially-filled orbitals have parallel spin causing increased stability due to a decrease in the screening of electron-nuclear attractions. Its application results in the aufbau principle where all orbitals in the same subshell must contain at one electron before accepting a second opposite spin electron. FTP, name this principle of atomic chemistry.

Answer: Hund's Rule of maximum multiplicity

16. (OU) Linetta, Nicoletta, and Ninetta are three princesses who have been imprisoned in the title objects by the evil chef Creonte. Another evil character, Fata Morgana, aided by Leandre, Smeraldina, and Clarissa, curses the Prince after she cures him of incurable hypochondria. The Prince is aided by his sidekick, Truffaldino, but all of this is actually being witnessed by the chorus of Ridiculous People, who represent the audience in, FTP, what opera based on a Carlo Gozzi work, composed by Sergei Prokofiev?

Answer: *The Love for* [accept of] *Three Oranges* or *Lyubov kuh Tryom Apelsinam*

17. This philosophy's key features include the belief that science involves the idea of the unity of science, the belief in occasional quantum leaps in our scientific understanding, and the belief that scientific knowledge is cumulative. Expounded by Mill, Spencer, Feuerbach, Marx, and Engels, this philosophy was influenced by Enlightenment thinkers such as Pierre-Simon Laplace, and its application to psychology yields behaviorism. FTP, identify this scientific philosophy developed by Auguste Comte that gives definite empirical data greater weight than metaphysical arguments.

Answer: positivism

18. This compromise set more limitations in Burgundy and Italy than in Germany. Sometimes known by its Latin name of Pactum Calixtinum, it was one of the first accords attempting to resolve the power struggle between the Holy Roman Empire and the Papacy. Concerning the right of kings to grant secular but not spiritual authority to bishops, FTP name this 1122 agreement between Pope Calixtus II and Henry IV, named after the German city in which it was signed.

Answer: the Concordat of Worms

19. His verse appears in the collections *In the Winter of Cities* and *Androgyne, Mon Amour*. He also wrote four short fiction collections and one novel, *The Roman Spring of Mrs. Stone*. Several of his characters were inspired by his schizophrenic sister, Rose, the recipient of a failed lobotomy, and his domineering mother, most closely paralleled by Amanda Wingfield. FTP, name this openly homosexual playwright who described New Orleans in such works as *A Streetcar Named Desire*.

Answer: Tennessee Williams

20. (OU) They are one of the few mammals known to have the sense of electroreception and theirs is the strongest of any mammal species. Like other members of its order, this species has a number of additional bones in the shoulder girdle which are not present in other mammals. They are also unique with respect to the small calcaneous spur located on the hind legs and used by males for injecting venom into rivals during the mating season or into other animals. FTP, name this member of the order monotremata, which is best known for its leathery bill.

Answer: Duck-Billed Platypus or *Ornithorhynchus anatinus* or Mallangong or Tambreet or Boondaburra

21. This organization's symbol is a snake wrapped around an axe, and often a phrase meaning "watch out for both" is written below their emblem. Beginning in 1959, this group began attacking and bombing, often stealing a page from the Irish Republican Army's playbook and announcing their attacks ahead of time through anonymous calls to the newspaper Gara. Their bombings were their most audacious and terrifying during the 1980's though their attacks have become less frequent in recent years as their political wing Batasuna became more powerful. Announcing a permanent cease-fire in March of 2006, FTP identify this separatist terrorist group who operated in Spain, whose acronym spells the English name of the seventh letter of the Greek alphabet.

Answer: ETA (Euskadi ta Askatasuna)

22. It is the only New World city mentioned in *Don Quixote*, and was originally part of the Viceroyalty of Peru. Although at least one city in Tibet begs to differ, it claims itself to be the highest city in the world. Legend has it that the ruler of the Incas passed by the large mountain Cerro Rico near this city, noted the richness of its silver deposits, and then left it for the Spanish to exploit. FTP identify this city in modern-day Bolivia, which was in its time one of the largest silver mines in the world.

Answer: Potosí

23. One appears in Bach's Minuet in G Major with an unessential B and principle A note. The unessential note lacks time-value, allowing the performer to alter its length for an appropriate melodic effect. Its short variety sets the unessential as a thirty-second note and is denoted with a grace note. FTP, name this musical ornament commonly used during the Baroque era whose name derives from the Italian word for "to lean upon."

Answer: (long) appoggiatura

1. Name these “one-lit-wonders” from clues FTPE:

A. This daughter of Frances Cunningham Finch won the Pulitzer Prize for fiction in 1961. Since then, she has remained withdrawn from society and grants almost no interviews.

Answer: Harper Lee

B. Until the 1990s, it was thought that the only novel she ever wrote was the one turned into the highest grossing film in the history of Hollywood and won the 1937 Pulitzer Prize.

Answer: Margaret Mitchell

C. He wrote *The Neon Bible* at age 16, but is best remembered for a different book about a bumbling intellectual snob that earned him a posthumous Pulitzer Prize in 1981.

Answer: John Kennedy Toole

2. Name the following French film directors FTPE:

A. First a critic and protégé of Andre Bazin, this director of *Jules and Jim* and *Day for Night* was an integral part of French New Wave cinema.

Answer: François Truffaut

B. This early filmmaker directed *A Trip to the Moon*, later referenced in a Smashing Pumpkins music video.

Answer: Georges Méliès

C. This son of a famous painter is most famous for *The Rules of the Game* and *The Grand Illusion*.

Answer: Jean Renoir

3. FTPE, answer the following questions pertaining to the Wittig reaction.

A. One reactant is this type of hydrocarbon defined as having one carbon-carbon double bond.

Answer: alkene

B. The other reactant is this special type of neutral molecule with a positive and negative charge on adjacent atoms.

Answer: ylide (YIH-lid)

C. One of the intermediates of the Wittig Reaction is this special type of neutral molecule with nonadjacent positive and negative charges.

Answer: betaine (BAY-tuh-een)

4. Answer the following about the Corps of Discovery FTSNOP:

(5 each) These are the two men who led the Corps of Discovery from 1804 to 1806.

Answer: Meriwether Lewis and William Clark

(10) This Shoshone woman joined the party as an interpreter when the Corps made camp for the winter in her area.

Answer: Sacagawea (be lenient with pronunciation.)

(10) This member of the Corps, Clark's manservant, was apparently treated as an equal during the expedition but remained Clark's slave for another ten years after their return.

Answer: York

5. Answer the following about a philosophical movement FTSNOP:

(10) Jean-Paul Sartre was the only major figure within it to embrace the term; Heidegger explicitly rejected this label.

Answer: Existentialism

(10) While not all scholars consider him a true existentialist, this man's *I and Thou* is often cited as an influential work in the movement.

Answer: Martin (or Mordechai) Buber

(10) Though he called himself a “concrete philosopher”, this French Catholic author of *Presence and Immortality* and *Being and Having* is considered a key proponent of Christian existentialism.

Answer: Gabriel Marcel

6. Identify some characters from *A Midsummer Night's Dream* FTPE:

This "knavish sprite" is also known as Robin Goodfellow.

Answer: **Puck**

This queen of the fairies falls in love with a man with the head of an ass and is married to Oberon.

Answer: **Titania**

This Athenian lass runs into the forest with Lysander to escape her father's sentence of possible death - or worse, chastity.

Answer: **Hermia**

7. FTPE, name these derivatives of nucleic acids.

A. These constituents of nucleic acids contain a nitrogen base bound to a ribose sugar.

Answer: **nucleosides**

B. Spliceosomes contain this type of nucleic acid which binds to introns during splicing of mRNA.

Answer: **snRNA**

C. These prepared monomers of DNA are used during DNA sequencing. They lack a 3'-hydroxyl group on their deoxyribose sugar to prevent generation of phosphodiester bonds.

Answer: **dideoxynucleotides**

8. On a 10-5 basis, name these related persons.

A. (10) His voice appears on Mike Oldfield's re-release album *Tubular Bells 2003*, replacing the late Vivian Stanshall of the 1973 original version as the master of ceremonies, who eccentrically announces the various instruments.

(5) His film appearances include *Silverado*, *Rat Race*, and the lead role *A Fish Called Wanda*.

Answer: John **Cleese**

B. He plays the minor role of Paul 'Dibbs' Plutzker in *Casper* and can be seen in two different Epcot attractions as the fictitious Dr. Nigel Channing.

(5) Other memorable roles include Berthold in *The Adventures of Baron Munchhausen* and the Bike Rider in *National Lampoon's European Vacation*.

Answer: Eric **Idle**

C. His latest directorial effort, *Tideland*, is slated for release on June 2nd, 2006. Highlights of his directing career include *Twelve Monkeys*, *Fear and Loathing in Las Vegas* and *Brazil*.

(5) This Minnesota native recently became a British citizen, understandable since his career was launched as animator and occasional performer on *Monty Python's Flying Circus*.

Answer: Terry **Gilliam**

9. Answer the following about an assassin FTPE:

This man was born in Slidell, LA, and spent time in the Soviet Union before achieving notoriety on Nov. 22, 1963.

Answer: Lee Harvey **Oswald**

This is the name of the Dallas nightclub owner who shot Oswald on live television.

Answer: Jack **Ruby**

Even most conspiracy buffs concede that Oswald shot and killed this man, an officer with the Dallas police department.

Answer: J.D. **Tippit**

10. Ah, Oceania. Identify these countries in Oceania from their capitals, FTPE.

A. Port Moresby

Answer: **Papua New Guinea**

B. Nuku'alofa

Answer: **Tonga**

C. Suva

Answer: **Fiji**

11. FTPE, identify the following men mentioned in genealogies in the Old Testament, or Tanakh if you prefer.

A. Living a total of 969 years, this man is the oldest recorded in the Bible.

Answer: **Methuselah**

B. One of two men in the Bible who apparently never died, this man "walked with God, and was not, for God took him."

Answer: **Enoch**

C. This son of Noah is the progenitor of the Jewish and Arabic peoples, as one might infer from his name.

Answer: **Shem**

12. FTPE, identify the following constellations.

A. This constellation is the largest in area of the 88 modern constellations. Its brightest star is Alpheratz.

Answer: hydra

B. The tenth largest by area, Sadalsuud is this zodiac constellation's brightest star.

Answer: aquarius

C. The smallest of the 88 modern constellations is four-starred, appearing on many countries' flags.

Answer: crux or Southern Cross

13. FTPE, name the following Virginia Woolf novels.

A. A young man eventually metamorphoses into a woman as he passes from Elizabethan to modern times in this 1928 novel, her first subtitled "A Biography."

Answer: Orlando

B. The main character is presented mostly through the eyes of women in his life. After his death, Woolf describes the title object he leaves behind.

Answer: Jacob's Room

C. This experimental novel consists of six monologues from characters describing a coastal scene at various times of the day.

Answer: The Waves

14. Answer these questions about Egyptian Pharaohs FTPE.

Sometimes called the "Napoleon of Egypt", this stepson of Hapshetsut expanded Egypt's territory into the Levant.

Answer: Thutmose III

B. He signed the world's first peace treaty in 1258 B.C., and an honorific name of his is said to have been the inspiration for the title of Shelley's "Ozymandias".

Answer: Ramesses II (the Great) or Ramses II (the Great)

C. This early pharaoh commissioned the step pyramid that was eventually designed by Imhotep.

Answer: Djoser [pronounced ZOH-ser, but accept any phonetically plausible attempt]

15. FTPE answer the following questions about musical genres closely identified with Brazil FTSNOP.

(10) The first recording in this genre, based on African rhythms with an emphasis on the first beat, dates to 1917.

Frequently used instruments include the cuíca and the cavaquinho, a four-stringed instrument similar to the ukulele.

Answer: samba

(10) Astrud Gilberto is credited with developing this genre, a fusion of samba and American cool jazz, in the late Fifties. The best-known song of this style is "The Girl from Ipanema."

Answer: bossa nova

(10) Exceptionally popular in the northeastern regions of Brazil is this genre which some say is descended from polka, most likely because drums and a triangle usually accompany an accordion in this style's highly danceable songs.

Answer: forró (fo-HAW); accept with great forro pe-de-serra, which is a subgenre

16. Answer the following questions about short-lived nations FTPE.

This short-lived nation seceded from Nigeria in 1967, and had its capital at Enugu.

Answer: Biafra.

This Republic existed for only 25 days in 1846 when John C. Frémont took control of a group of Americans who captured a the California town of Sonoma and declared its independence from Mexico.

Answer: Bear Flag Republic

This area in what is now northeast Tennessee seceded from North Carolina in 1785 and unsuccessfully applied for statehood, giving up and folding four years later.

Answer: the State of Franklin

17. FTPE, identify the following pertaining to structures.

In general, this object contains information, usually a memory address, where data is stored instead of actual data itself.

Answer: reference

A peek function allows the top object, the last added, to be "popped" without altering the size of this structure.

Answer: stack

Objects may be added to either end of this structure, but objects may only be removed from the front end.

Answer: deque (pronounced deck) or double-ended queue

18. FTPE, identify the following largely unrelated musical works from component songs. If you need the composer, you'll only get 5.

(10) "Comfort Ye My People," "For Unto Us a Child is Born," "I Know That My Redeemer Liveth"

(5) George Frideric Handel

Answer: Messiah

(10) "Vyšehrad" (The High Castle), "Vltava" (The Moldau), "Tábor"

(5) Bedřich Smetana

Answer: Má Vlast (My Country)

(10) "The Snow is Dancing," "The Little Shepherd," "Golliwog's Cakewalk"

(5) Claude Debussy

Answer: Children's Corner

19. FTPE, identify the following characters from stories by the man who created *boredom*, Charles Dickens.

A. This kind blacksmith cares for Pip early on and remains faithful to him throughout the story.

Answer: Joe Gargery

B. Lady Dedlock's sister, she raised Esther Summerson and was romantically involved with Lawrence Boythorn.

Answer: Miss Barbary

C. She is an old pauper woman and an inmate of the workhouse. She attends at Oliver's birth, "rendered rather misty by an unwonted allowance of beer."

Answer: Sally Thingummy

20. FTPE, identify the following classes of magnetic materials.

A. This class is probably the most interesting for technological applications. In it, all of the magnetic domains are aligned at all temperatures below the material's Curie point.

Answer: ferromagnetic

B. This class has no net magnetic moment because its magnetic domains are perfectly anti-aligned.

Answer: antiferromagnetic

C. This class possesses properties associated with both ferro- and antiferromagnetism. The domains are anti-aligned, but in such a way as to maintain a small spontaneous moment below the Curie temperature.

Answer: ferrimagnetic

21. A German political theorist of Jewish descent, she had an on-and-off relationship with Martin Heidegger, FTPE:

A. Name her.

Answer: Hannah Arendt

B. This 1951 Arendt book begins with the rise of anti-Semitism and analyzes Nazi Germany and Stalinist Russia.

Answer: The Origins of Totalitarianism

C. This 1963 book by Arendt describes the trial of a Nazi war criminal. In it, she describes his ordinary personality and callous attitude toward his actions.

Answer: Eichmann in Jerusalem: A Report on the Banality of Evil

22. FTPE given a modern-day city, identify in what Roman province its territory would have been found.

A. Jerusalem, Israel

Answer: Judaea

B. Lisbon, Portugal

Answer: Lusitania

C. Bucharest, Romania

Answer: Dacia

23. Given a Mark Twain quote, fill in the missing word FTPE:

A. "I have never let my schooling get in the way of my _____"

Answer: education

B. "A _____ is something that everybody praises and nobody has read."

Answer: classic

C. "Familiarity breeds contempt- and _____."

Answer: babies