

**Tossups**

1. In addition to his more famous vocation, he was actually a noted chemist, and was one of the discoverers of the aldol reaction. As a composer, he left a 3<sup>rd</sup> symphony unfinished, and his music was the inspiration for the musical *Kimset*. One of the turning points in his compositional work was his meeting Mily Balakirev and joining his circle of nationalistic composers. Among his more well-known compositions are *Polovtsian Dances* and *In the Steppes of Central Asia*. FTP, who was this member of the Mighty Five most famous for his opera *Prince Igor*?

Answer: Alexander **Borodin**

2. In this work, James, the neighbor of the main character and the father of a murdered fighter for racial equality, eventually decides to take up that cause. Gertrude, a prostitute, agrees to return home to her family, but flees the night before she is to embark. Absalom is to be executed the day after the novel's end for the murder of James' son, Arthur Jarvis. FTP, what is this novel set in South Africa about Stephen Kumalo's search for his son, the most famous work of Alan Paton?

Answer: **Cry, the Beloved Country**

3. It was first proposed in an 1842 monograph entitled *On the Colored light of the binary refracted stars and other celestial bodies*, and can be used to estimate the temperature of a gas that is emitting a spectral line. It can also be used to provide accurate measurements of blood flow direction and velocity, and one of its more well known applications results in red and blue shifts. FTP, what is this effect that deals with the change in frequency of a wave as perceived by a moving observer, often utilized in police radar guns?

Answer: **Doppler** Effect

4. He is mentioned in three separate Pauline Epistles, and one reference in Colossians suggests that he was not Jewish, which would make him the only non-Jew to write a New Testament book. Based on the fact that it contains a dedication to Theophilus and is linguistically similar to another book, *Acts* is generally ascribed to him, meaning that he wrote around 1/3 of the New Testament. The patron saint of physicians and surgeons, FTP who was this evangelist and possible colleague of Paul, most famous for his authorship of the third Gospel?

Answer: **Luke**

5. John Quincy Adams signed it into law despite knowing that it would harm him personally, which later proved correct when Andrew Jackson defeated him in that year's Presidential Election. After much consternation from a specific state, a much less harsh, revised version was passed in 1832. It was designed to protect Northern industry by making European goods prohibitively expensive. FTP name this tariff that angered John C. Calhoun so greatly that Nullification and Secession were threatened?

Answer: Tariff of **Abominations**

6. It can be caused by a decline in plankton, an increase in sunlight, infection by various pathogens, or most commonly by increased water temperatures. These factors cause stress on the namesake host organism, leading them to expel the algae that they exist symbiotically with. FTP, what is this phenomenon that has been on the rise in recent years and has impacted such areas as the Great Barrier Reef, in which coral lose their pigmentation and die?

Answer: Coral **Bleaching**

7. They made 21 consecutive playoff appearances from 1977-2003, the second-longest streak in American team sports and the longest in the NBA. Their lone NBA Championship was in the first year of this streak, with a team lead by Maurice Lucas and Bill Walton. More recently, Clyde Drexler took them to the 1990 and '92 Finals. FTP, which NBA franchise now featuring LaMarcus Aldridge and reigning rookie of the year Brandon Roy suffered a severe blow when it was announced that their number one pick Greg Oden would miss the entire season?

Answer: **Portland Trailblazers** (accept either answer)

8. She and her prospective suitor first meet in Switzerland, where they are introduced by her brother Randolph. While in Rome, she has a fling with a Mr. Giaovanelli, which indirectly leads to her death. The climax occurs at the Roman Colosseum when she is rebuked and dismissed by her suitor, Lord Winterbourne. FTP, who is this young and flirtatious American girl who dies of malaria shortly thereafter, the title character of a novel by Henry James?

Answer: **Daisy Miller**

9. It was formed within the last 2.5-3 million years and forms part of the borders of 6 U.S. states. It flows northwest for a relatively short distance at its beginning, and then turns rapidly southwest, picking up tributaries such as the Muskingum, Big Sandy, and Wabash Rivers until it is drained at Cairo, Illinois. Its Falls are the only natural navigational barrier, and it was at that spot that Louisville, Kentucky was built. Formed by the confluence of the Alleghany and Monongahela Rivers, FTP name this largest tributary of the Mississippi, which also flows past Cincinnati in its namesake state.

Answer: The **Ohio River**

10. She instituted a large standing army on the advice of Wilhelm Haugwitz, while her civil reforms included supporting inoculation and regulating serfs' labor payments. Her children included Holy Roman Emperors Leopold II and Joseph II, as well as Marie Antoinette, all by her husband Francis I. She was on the losing side during the Seven Year's War, as she had been during the war prompted by the Pragmatic Sanction issued by her father, Charles VI. FTP name this woman who became Empress of the Holy Roman Empire despite losing territory in the War of Austrian Succession.

Answer: **Maria Theresa**

11. Some of his industrial projects included the Larkin Administration Building in Buffalo and the Johnson Wax Headquarters in Racine, Wisconsin. He built his winter home in Scottsdale, calling it the "West" version of his home he had named after a Welsh bard, Taliesin. His Imperial Hotel in Japan was specifically designed to be earthquake proof, and his most famous house extends out over a stream. FTP identify this American architect who developed the Prairie style, best known for the New York Guggenheim Museum, Robie House, and Falling Water.

Answer: Frank Lloyd **Wright**

12. It was written while its author was campaigning in Pannonia, and may or may not have been intended for widespread publication. The writer is especially concerned with the power of excessive emotions and the rejection of them, which if accomplished, will liberate a man from the pains of the world. FTP, what is this work of Stoic philosophy composed by the Roman Emperor Marcus Aurelius, which shares its name with some writings "On First Philosophy" by Descartes?

Answer: **Meditations**

13. In 1920, a scandal erupted over an affair that he had with Rosalie Raynor, a graduate student of his, which cost him his job at Johns Hopkins. He famously stated in 1930 that if given complete control of the lives of 12 infants, he could make them into whatever sort of people he desired. His most famous experiment involved making an 11-month old child fear a rat by associating it with loud noises. FTP, who was this psychologist, known for his less than ethical Little Albert experiment, and for establishing behaviorism as a psychological school?

Answer: John Watson

14. This group is the only one which includes elements that occur in all three of the most common states of matter at standard temperature and pressure. Many of them are highly reactive, and this group in fact contains the most reactive of all elements. Their name literally means salt-producing, which refers especially to what occurs when they bond with a metal. FTP, what is this group on the periodic table, numbered 17, which contains elements such as iodine, chlorine, bromine, and fluorine?

Answer: halogens

15. The character of Uncle Duke in *Doonesbury* is based on this man. Relatively recent releases include *Hey Rube*, *Better than Sex*, and *Kingdom of Fear*. He is known for his consumption of copious amounts of drugs as well as his patented "Gonzo" writing style. He famously wrote for *Rolling Stone*, including works like *Hell's Angels* and his coverage of the 1972 Presidential Campaign. FTP, who was this writer who committed suicide in 2005, best known for *Fear and Loathing in Las Vegas*?

Answer: Hunter S. Thompson

16. It was a companion to another case, *Doe v Bolton*, that regarded a Georgia law and was decided the same year. Both Byron White and the recently-appointed William Rehnquist dissented, while the famous majority opinion was written by Justice Harry Blackmun. The suit was filed in Texas, and the defendant, Norma McCorvey, claimed that her status stemmed from rape, although she later admitted that this was inaccurate. FTP, what was this 1973 Supreme Court Case which seized on a "right to privacy" to overturn state laws regarding abortion?

Answer: Roe v Wade

17. His most famous physical attribute is generally attributed to the result of an altercation with Shiva. He is often depicted with four arms and a protruding belly and is often the first icon brought into a new home after its construction. His position as the Lord of Beginnings relates to this, and he is also the Lord of Obstacles. FTP, who is this Hindu deity, the God of Wisdom and of the arts and sciences, famous for his elephant head?

Answer: Ganesha

18. Pencil and Paper ready, 15 seconds. If one leg of a right triangle is 60 units and the other leg is 32 units, FTP how long will the hypotenuse be? It will be helpful to remember Pythagorean Triples.

Answer: 68 units

19. It consisted of 25 separate articles, most of which were economic. One rather important non-economic provision was the one preventing Roman Catholics from becoming the monarch. It also provided for the joining of the two parliaments and for representation for the smaller nation in both houses. FTP, what was this Act passed by the Parliaments of both Scotland and England under Queen Anne in 1707, so named because it formally joined the two countries?

Answer: Act of Union

20. Among his nonfiction works are *My Secret Book*, a dialogue with St. Augustine, and a collection of short biographies entitled *On Famous Men*. One of his most well-known poetry collections is his *Canzoniere*, consisting of 366 poems written in vernacular Italian, as opposed to his more frequent Latin. Many of the poems within the aforementioned work concern a female object of his affections, who may or may not have actually existed. FTP who was this 14<sup>th</sup> century Italian poet, best known for perfecting the sonnet and professing his love for Laura?

Answer: **Petrarch**

21. "Monarch of the Glenn" is a sequel to this work, which swept most of the awards for science fiction/fantasy novels in 2002. It tells the story of a recently released prisoner named Shadow as he drifts along in the world of the titular entities. These include physical manifestations of TV and the internet, as well as Mr. Wednesday. FTP, what is this Neil Gaiman work, whose name refers to a group of people including Czernebog, Anansi, Kali, the Zorya, Anubis, Thoth, and Odin?

Answer: **American Gods**

**Bonuses**

1. Given the description of a gas law, name the law FTPE:

This law states that a gas's volume is directly proportional to its temperature at a constant pressure.

Answer: Charles's Law

This law says that equal volumes of gases at the same pressure and temperature have the same number of molecules.

Answer: Avogadro's Law

This law states that the rate of effusion in a gas is inversely proportional to the square root of the molecular weight.

Answer: Graham's Law

2. Answer these questions about the Akkadians FTPE.

Perhaps their greatest military leader, he conquered Sumer in 2340 BC to start the Akkadian empire with capital at Akkad.

Answer: Sargon I or The Great

Akkad, the capital city, later became known as this city, which flourished in the Middle East for over 2000 years.

Answer: Babylon

The Akkadian empire lasted until 2125 BC when this Sumerian city revolted. It may have been the birthplace of Abraham, and it is home to a famous ziggurat.

Answer: Ur

3. Identify the following regarding an author and his works FTPE:

This Irish author of *Finnegan's Wake* used the alter-ego Stephen Daedalus in two of his most famous novels.

Answer: James Joyce

This novel from the perspective of Daedalus takes the reader through the aging of the character and uses stream-of-consciousness and increasing complexity of language to document his growth.

Answer: A Portrait of the Artist as a Young Man

This short story collection includes "Eveline" and "An Ivy Day in the Committee Room", but its most well-known section is the novella *The Dead*.

Answer: Dubliners

4. Answer the following about pillars of Islam FTPE:

This pilgrimage to Mecca should be completed at least once in every able-bodied Muslim's lifetime.

Answer: Haji

The central point of the hajj is to walk around this black cuboidal structure, the holiest place in Islam and said to have been created by Ibrahim and Ismail. When Muslims pray, they face it.

Answer: Kaaba

This practice is the gift of 2.5% of one's income each year for the purposes of charity or alms.

Answer: Zakah or Zakat

5. The Soviet Union was certainly among the most powerful countries in the world for most of its relatively brief existence. FTPE, identify some of the rulers of that nation from clues.

His name meant "man of steel" and he is notable both for the brutality he showed in purging the army and starving many Ukrainian villages, as well as his leadership during WWII. He also created lots of Five Year Plans.

Answer: Josef **Stalin**

He initiated a policy of de-Stalinization after he came to power. He also said something about "burying" the United States.

Answer: Nikita **Khrushchev**

This former KGB chief became the General Secretary in 1982, but this was short-lived, due to his death 15 months later.

Answer: Yuri **Andropov**

6. His first successful opera was *Manon Lescaut*, and his *Girl of the Golden West* was set in America. FTPE:

Name this prolific Italian opera composer also noted for *Tosca*.

Answer: Giacomo **Puccini**

This Puccini opera revolves around the relationship of an American naval officer named Pinkerton and a Japanese woman named Cio-Cio San. At the conclusion of the opera, Cio-Cio San kills herself after she meets Pinkerton's wife.

Answer: **Madame Butterfly**

This Puccini opera tells the story of a Prince of Tartary attempting to seek the hand in marriage of a titular Chinese Princess, which he does after successfully answering three riddles. It features the notable aria "Nessun Dorma."

Answer: **Turandot**

7. Answer the following questions related to a trilogy of Greek plays FTPE:

This cycle of plays consists of *Agamemnon*, *The Libation Bearers*, and *The Eumenides*. It gets its name from one of the central characters, the brother of Electra.

Answer: The **Oresteia**

What author of the *Oresteia* also wrote *The Persians* and *Prometheus Bound*?

Answer: **Aeschylus**

Which wife of Agamemnon and mother of Electra and Orestes murdered her husband in his bath as revenge for his sacrifice of their daughter Iphigenia?

Answer: **Clytemnestra**

8. Given a mammal or mammals, supply the biological order of which it is a member FTPE:  
Bats

Answer: **Chiroptera**

Lions or Tigers

Answer: **Carnivora** [accept **Carnivores**]

Lemurs and Gibbons

Answer: **Primate**

9. FTPE, name these actors who have played Superman.

This actor played Superman in the 1978 movie and its three sequels, but was tragically thrown off a horse in 1995 and died in 2004.

Answer: Christopher **Reeve** (do NOT accept Reeves)

This actor starred alongside Teri Hatcher in the 1990s TV show *Lois and Clark: The New Adventures of Superman*. He also apparently played Scott Peterson in *The Perfect Husband: The Luci Peterson Story*.

Answer: Dean **Cain**

This actor had a year-long role on *One Life to Live* before playing Superman in the 2006 movie *Superman Returns*.

Answer: Brandon **Routh**

10. Identify the following regarding a philosophy and its expounders FTPE:

Which philosophical doctrine, popular in 17<sup>th</sup> and 18<sup>th</sup> century Britain, holds that experience and sensory perceptions as opposed to innate ideas are the foundations of knowledge?

Answer: **Empiricism**

This formulator of empiricism argued that the mind is a *tabula rasa* in his *Essay Concerning Human Understanding*. He is also known for his *Two Treatises on Government*.

Answer: John **Locke**

This Irish empiricist author of *A Treatise Concerning the Principles of Human Knowledge* is the namesake of a major college town in the Western United States.

Answer: George **Berkeley**

11. Identify the following battles from the Pacific Theater of WWII FTPE:

This May, 1942 battle was notable both for being the first battle between aircraft carriers and the first naval battle at which neither side's ships sighted or fired directly upon each other.

Answer: **Coral Sea**

This battle occurred one month after Coral Sea and was another crucial victory for the U.S. navy. The Japanese plan to sink the remaining U.S. carriers backfired, and they ended up losing four of their own.

Answer: **Midway**

This first American attack on the Japanese home islands was initiated in an attempt to gain control of the island's airfields. The picture of marines hoisting the flag atop Mount Suribachi at this battle is among the most famous of the war.

Answer: **Iwo Jima**

12. Name the early American authors given clues FTPE:

She was the first African-American poet to be published, with works like *To His Excellency George Washington* and *Poems on Various Subjects, Religious and Moral*.

Answer: Phyllis **Wheatley**

He became known as the "poet of the Revolution" and penned "The Wild Honey-Suckle" in addition to editing the Jeffersonian *National Gazette*.

Answer: Philip **Freneau**

He is remembered for his allegory of Christian's journey to the Celestial City, *The Pilgrim's Progress*.

Answer: John **Bunyan**

13. Answer the following questions about a number of related mountains FTPE:

Although many believe the tallest mountain in Europe to be Mt. Blanc, it is actually this mountain located in the Caucasus.

Answer: Mt. **Elbrus**

What highest mountain outside of Asia is located in Argentina, 15 miles away from the Chilean border?

Answer: Mt. **Aconcagua**

Both Elbrus and Aconcagua are members of the Seven Summits. Which tallest mountain in Australia is named for a Polish general, who fought for the Continental army during the American Revolution?

Answer: Mt. **Kosciusko**

14. Answer the following questions involving a certain group of astronomical objects FTPE:

The No Hair theorem states that all solutions related to these objects dealing with general relativity can only be characterized by mass, electric charge, and angular momentum.

Answer: **black holes**

In black holes, what is the name for the boundary of the area from which light cannot escape, which gives black holes their defining characteristic?

Answer: **event horizon**

What is the name for the volume-less and infinitely dense region at the center of a black hole?

Answer: **singularity**

15. Identify the following artists of abstract expressionism from clues FTPE:

This Cody, Wyoming native is arguably the painter most associated with the movement. He is noted for his "Action paintings" like *Lavender Mist*, involving dripping paint onto a canvas.

Answer: Jackson **Pollock**

He painted a series called *Woman I-VI* which includes *Two Women in the Country* among others.

This Dutchman also painted *Light in August* and *Black Friday* using primarily household enamels.

Answer: William **de Kooning**

As of May 2007, his *White Center* fetched the highest price at auction of any work of modern art.

This was an example of one of his multiforms, which consisted of bands of overlapping colors. He is also known for color field works.

Answer: Mark **Rothko**

16. Identify the following related to the signing of a certain 13<sup>th</sup> century document FTPE:

Which "Great Charter" signed by King John enabled the right of habeus corpus as well as granting certain protections to feudal nobility?

Answer: **Magna Carta**

At which meadow bordering the Thames River did John famously sign the document?

Answer: **Runnymede**

One of the factors which helped anger the barons was the loss of face over the King's attempts to appoint John de Gray to this Church-related post, held today by Rowan Williams?

Answer: **Archbishop of Canterbury**



17. Given an author and a brief description, identify the work of 19<sup>th</sup> century local color fiction FTPE:

This Bret Harte short story concerns a small boy raised in a gold prospecting camp, whom the miners christen with the title name.

Answer: "The **Luck of Roaring Camp**"

This character is a fictional black storyteller of rural Georgia, and collections of his "stories" were written by Joel Chandler Harris.

Answer: **Uncle Remus**

This short novel by Kate Chopin tells the story of the affair and death of Edna Pontellier.

Answer: The **Awakening**

18. FTPE name these terms from optics, which all start with the same letter.

Famously seen in the Young's double-slit experiment, this term can refer to the spreading out of light after passing through a small slit.

Answer: **diffraction**

Due to different index of refractions for different wavelengths, this phenomenon occurs, the spreading out of white light into its component colors via a prism.

Answer: **dispersion**

This change in shape of an image results from imperfections in an optical system, such as a lens.

Answer: **distortion**

19. Identify the author given works, on a 30-20-10 basis.

[30] *Death in Midsummer, Forbidden Colors, and My Friend Hitler*

[20] *The Sailor Who Fell From Grace with the Sea, The Sound of Waves, and Sea of Fertility*

[10] *Confessions of a Mask and Temple of the Golden Pavilion*

Answer: Yukio **Mishima**

20. Given what a specific Greek thinker believed to be the primary substance of the world, name the thinker FTPE:

This early pre-Socratic philosopher believed that the world originated from water.

Answer: **Thales**

This philosopher who is also notable for his doctrine of constant change held that fire was the primordial substance.

Answer: **Heraclitus**

He is known for his theory that there were four primary elements-air and earth along with the aforementioned water and fire.

Answer: **Empedocles**