

## Round 5 - Tossups

Written by: Frank Swoboda and Aaron Twait

1. The reader first encounters him at the novel's outset as a minor workhouse official with exaggerated ideas of his own importance. His language is filled with arrogance and bravado, as in his proclamation that "the law is an ass." However, by the end of the story, his marriage to the Widow Corney sees him henpecked into quiet submission. FTP identify this clumsy-sounding Dickens character, who refuses when *Oliver Twist* asks him for more.

Answer: Mr. Bumble

2. When first discovered in 1608, it could only be extracted from gum benjamin. By the 1850s, it was being derived from acids in livestock urine. It is common elsewhere in nature - in cherry bark, raspberries, and teas. Its antifungal properties make it a useful food preservative, and its natural taste lends it to use as flavoring in beverages, candies, and baked goods. Since World War II, it has most often been produced from the air oxidation of toluene. FTP, identify this acid, formula  $C_6H_5COOH$ , also known as phenylformic acid.

Answer: Benzoic acid or benzenecarboxylic acid

3. The first of the young women is viewed in profile in the left of the painting. Next to her stands the second, who holds fabric in her left hand and holds her hair back with her left. The third young woman holds both of her hands behind her head, exposing her nude body to the viewer as much as the fragmented style permits. The fourth young woman is standing behind the fifth, who sits with her back to the viewer in the lower right of the canvas; the faces of both are stylized, influenced by the African masks the artist was so enamored of while he was preparing studies for the piece. FTP identify this 1907 work, considered by many to be Picasso's first masterpiece as well as that of Cubism.

Answers: *Les Demoiselles d'Avignon* or *The Young Ladies at Avignon*

4. It was an outgrowth of the Transcendental Club when founded by George Ripley in 1841. All labor, whether physical or intellectual, was paid the same amount, attracting such thinkers as Isaac Hecker and Charles Dana. However, by 1843 it had been converted to the radical philosophy of Fourier (foo-YAY) and became a phalanx. An 1846 fire shut down its daily operations, and the society itself disbanded the following year. Despite its short lifespan, it lives on in the novel *The Blithedale Romance*, which Nathaniel Hawthorne based on his experiences living there. FTP name this utopian Massachusetts community.

Answer: Brook Farm

5. John Rawls uses this imaginary device to argue that societies wishing to be just have a duty to provide for its lesser members by means of income redistribution. Rawls states that any member of society could just as easily end up in a lower social and economic position as in a higher one; and thus, if \* approached before our socio-economic position was ascertained, we would all hedge our bets and establish one of these. FTP, identify this idea which binds members of society and the governing organization of society together.

Answers: Social Contract (accept veil of ignorance before the \*)

6. Living from 1601 to 1665, he spent most of his life as a lawyer, but he is most commonly associated with the field of mathematics - no surprise given his impact on the development of analytic geometry and number theory. The set of numbers named for him is defined by the function  $f$  of  $n$  equals  $n$  to the 2 to the  $n$  power, plus one, where  $n$  is greater than or equal to zero. Two theorems - one great, one little - also bear the name of, FTP, what Frenchman?

Answer: Pierre de Fermat

7. Some would say that all literature contains this element, but it was a much more common goal for pre-nineteenth century works, before literature became accepted for aesthetic value alone. Some examples in poetry include Virgil's *Georgics*, Erasmus Darwin's *Botanic Garden*, and Pope's *An Essay on Man*. Often, this kind of literature was directed at women and children in order to make their lessons easier to digest. FTP, give this word, which has come to mean a piece of literature which teaches in a heavy-handed and artless way.

Answer: Didacticism

8. Its 1891 publication caused a stir both within Catholicism and outside of it. Viewed by scholars as the Vatican's first document to proactively respond to the modern world, it was the first papal encyclical to deal expressly with the topic of workers and poverty, and for this, Pope Leo XIII was hailed as a hero by lower-class Catholics worldwide. FTP identify this document, the first official Catholic teachings on social justice, whose name in Latin means "The Condition of the Workers."

Answer: *De Rerum Novarum*

9. Informally founded in Manchester in 1747, it was not until it found a leader in 1758 that it was organized under the title "United Society of Believers in Christ's Second Appearing". The group flourished in America, peaking in 1830 with 6000 members, but current membership is less than a dozen, all of whom live near Sabbathday Lake in Maine. FTP, name this sect of Christianity, whose more common name is derived from their style of worship, adapted from a vision of the Hosts of Heaven chanting wordlessly and convulsing.

Answers: The Shakers (accept United Society of Believers in Christ's Second Appearing until mentioned in question)

10. After his works were banned in 1929, leaving him with no source of income, Mikhail Bulgakov was forced to beg Stalin for the right to publish in the Soviet Union. His experience of fighting for his artistic independence inspired this novel about a banned writer and his lover, which Bulgakov set against the backdrop of Satan paying a surprise visit to Moscow with an entourage of demons, witches, and a chess-playing, vodka-drinking cat. FTP name this 1937 novel, unpublished until the 1960s in the USSR but today recognized as one of the finest Russian novels of the century.

Answer: *The Master and Margarita*

11. The majority of them fall into three classes: C-, S-, and M-, depending on their spectra from reflected sunlight. Vesta is the only one visible to the naked eye, although Ceres, the largest at 750 km around, was the first one to be discovered in 1801 by Giuseppe Piazza. FTP, name these things most often located between 2.0 and 3.3 astronomical units from Earth, between the orbits of Mars and Jupiter.

Answers: Asteroids, Planetoids, or Minor Planets

12. Her childhood on Martha's Vineyard was uninteresting, so she learned to rely on her imagination to stylize reality and add excitement to her life. As a designer, she has reconceived such classic works as *The Flying Dutchman*, *Salomé*, and *The Taming of the Shrew*. As a director, she has staged original pieces like this year's *The Green Bird*, for which she was nominated for a Tony - an award she won in 1998. FTP name this designer, puppeteer, choreographer, and director of the movie *Titus* and the musical *The Lion King*.

Answer: Julie Taymor

13. During the night of June 9, 1772, a mob disguised as Indians boarded the ship, arrested the crew, and set fire to the vessel. It had been beached chasing the *Hannah*, a colonial ship suspected of smuggling. No real action was taken by Rhode Island authorities, so the British called for an investigation, with a trial to take place in England. In response to this, the colonists formed the Committees of Correspondence. FTP name this incident, one of the first acts of armed resistance by colonists prior to the American Revolution.

Answer: Gaspée Affair

14. It can be thought of as an extension of Newton's First Law of Motion. When multiplied times rotational velocity, the result is angular momentum. This property of rotating objects, measured in kilogram-square meters, increases by the square of the distance between the object and its axis of rotation. FTP what name is given to the tendency of a rotating object to continue turning until an outside torque causes its motion to change?

Answers: moment of inertia or rotational inertia

15. He was first created by John C. Coryell, and his character was later developed by TC Harmbaugh and Frederick Dey. First appearing in the 1886 novel *The Detective's Pupil*, he has since figured in over 1000 stories, radio plays and movies - including 1939's *Master Detective*, 1940's *The Phantom Raiders*, and 1993's *Strike a Pose*. However, his name today is more likely to be associated with the album *Millennium*. FTP name this American detective-novel character or the similarly-named Backstreet Boy.

Answer: Nick Carter

16. It coincided with Bismarck's about-face regarding colonies, which he had regarded as unnecessary burdens on Germany, and he organized this with the help of France's Jules Ferry. Held in 1884 and 1885, it established some ground rules for European colonization of Africa -- the main principle being that, for recognition of its colonies, a nation had to effectively occupy and administer the region. Most of Africa was under European control within five years after, FTP, this international conference, named for the city in which it was held.

Answer: Berlin Conference

17. First a play by Garcia Gutierrez and later an opera, the plot centers on the competition between the gypsy Manrico and Count Luna for the love of Leonora, a lady-in-waiting. When Leonora double-crosses the count to save Manrico, Luna has the gypsy executed and then learns that Manrico was actually his younger brother. Verdi liked the suspense and passion of Gutierrez's play that he used the same plot and name in, FTP, this 1857 opera.

Answers: *Il Trovatore* or *El Trobador* or *The Troubador*

18. It sits on Pleistocene granite of the Appalachian range. A shelf of Devonian basalt crosses it with vestiges of Mesozoic shale and some sandstone outcroppings. Located at latitude 42 degrees 40 minutes and longitude 70 degrees 37 minutes, just across the Massachusetts lines, it has a population of exactly 2,642 as the play's action begins on the morning of May 7, 1901. Local landmarks include the combined Town Hall and Post Office, with the jail in the basement, the town grocery, Mr. Morgan's drugstore, and the town hospital, named in honor of Dr. Frank Gibbs. FTP name this fictional New Hampshire town, the setting of Thornton Wilder's *Our Town*.

Answer: Grover's Corners

19. In 1240 he won a victory over the Swedes near St. Petersburg which gave him his name. In 1242 he drove the Germans out of Russia and the Baltics. In 1246, the invading Mongols mediated with him, making him the Grand Prince of Kyiv and, in 1252, Grand Prince of Vladimir. Uniting these cities with Novgorod, he laid the foundation for the Muscovite dynasty that followed his reign. FTP identify this Russian hero, the subject of an Eisenstein epic and the Russian Orthodox patron saint of Russia, whose name means "Victory on the Neva."

Answer: Alexander Nevsky

20. In macroscopic plants constructed of parenchyma, all growth occurs in specialized zones of the plant in which cells are internally divided and elongated. When a region of vascular tissue growth, the zone is called a cambium. When responsible for radial leaf growth, the zone is referred to as abaxial. And when the site of upward growth in the plant stem, the zone is designated as apical. FTP, what more general term is given to these parts of the plant, where all growth takes place?

Answer: meristem

21. Of the 64 words to be found on it, 45 are either recent or fictitious forms of Swedish or Dano-Norwegian. Furthermore, only one-half of the characters inscribed upon it actually existed at the time when it was supposed to have been written. FTP, name this 200 pound rock, which supposedly records a Native American attack on a Norse exploring party in 1362 in the interior of North America.

Answer: Kensington Rune Stone

## Round 5 - Boni

1. Does the electoral college work? Answer these questions about election years when electoral votes didn't match up with the popular vote FTSNOP.

A. FFP, this Democrat placed second in the 1860 presidential election with 29.5% of the popular vote, but finished dead last in the electoral contest, winning only Missouri's 9 votes and 3 from New Jersey.

Answer: Stephen Douglas

B. FTP, 1 electoral vote was the swing factor in the 1876 election, when this Democrat - who actually won the popular vote - lost to Rutherford B. Hayes.

Answer: Samuel Tilden

C. F15P, representing the National Republican Party in 1832, he barely won 2% in the national vote but managed to win 11 electoral votes because neither Andrew Jackson nor Henry Clay was acceptable to South Carolina electors.

Answer: John Floyd

2. Given the following six works of music, order them from earliest to most recent: *Bolero*, *Peter Grimes*, *Prelude to the Afternoon of a Faun*, *Adagio for Strings*, *The Firebird*, *Rhapsody in Blue*.

Answers: *Prelude to the Afternoon of a Faun* (1894), *The Firebird* (1910), *Rhapsody in Blue* (1924), *Bolero* (1928), *Adagio for Strings* (1936), *Peter Grimes* (1945)

3. FTSNOP identify these Middle-Eastern writers.

A. FFP, although he studied art with Rodin in Paris, he eventually turned to writing prose-poems dealing with mysticism and redemption - such as his most famous work, *The Prophet*.

Answer: Kahlil Gibran

B. FTP, this mystic, who lived from 1207 to 1273, was inspired by his homosexual love affair with a nomadic Sufi to write poetry combining eroticism, theology, and everyday Islamic culture in a search for a perfect union between God and humans.

Answer: Jalal ad-din Rumi

C. F15P, he shared 1966's Nobel Prize for Literature with Nelly Sachs for his epic works dealing with Israel and Judaism, such as *The Bridal Canopy* and *Only Yesterday*.

Answer: Shmuel Yosef Agnon

4. FTPE identify these basic parts of human bone tissue.

A. Fibers of collagen are woven radially, increasing the strength of these concentric layers of the Haversian system.

Answer: Lamellae

B. The lamellae surround the Haversian canal in this building block of cortical bone, also known as the Haversian system.

Answer: Osteon

C. Internal bone tissue is covered by this layer of thin, fibrous membrane rich in blood vessels and nerves. The only part of the bone it does not cover is the epiphysis, or the part inside the joint.

Answer: Periosteum

5. Answer the following about anti-trust policy and regulation FTSNOP.

A. FTP, this is the ability of a firm to raise prices without facing a decrease in quantity demanded; this tends only to occur when there are fewer substitutes, often a result of a monopoly.

Answer: Market power

B. FFP, this 1890 act was the first US legislation declaring monopoly and trade restraints illegal, whether they are successful in their goal or not.

Answer: Sherman Antitrust Act

C. F15P, the FTC and Department of Justice use this index to measure whether or not a firm has an unfair share of the market, and whether or not a proposed merger will result in a monopoly.

Answer: Herfindahl-Hirschman Index

6. European diplomacy between 1871 and 1914 was marked by alliances modeled on those established by Bismarck. FTSNOP identify the following alliances.

A. FTP, this conservative alliance, an 1873 agreement among Germany, Austria-Hungary, and Russia, was the first step in the creation of a system of alliances.

Answers: Three Emperors' League or Three Emperor's Alliance

B. FFP, lasting from 1882 to 1915, this alliance was established between Germany and Austria in response to Russian resistance, with Italy joining to isolate France.

Answer: Triple Alliance

C. F15P, this agreement, lasting from 1887 to 1890, was Bismarck's attempt to maintain good relations with Russia despite other alliances positioning Germany against Russia.

Answer: Russian-German Reinsurance Treaty

9. FTSNOP identify the following breeds of cattle.

A. FFP, marked by black spots on white, this English breed is the predominant and overall largest dairy breed worldwide.

Answer: Holstein

B. FTP, originally from France, this typically white breed is one of the larger beef breeds and is characterized by a short coat that grows longer in the winter.

Answer: Charolais

C. F15P, white patches mark this Austrian breed's back, underside, chest, and thighs. It is as popular for its cheese as for its fighting tendency; an annual festival is held in the village of Conthey as the cows fight for the title of this breed's queen.

Answer: Pinzgau

10. FTPE identify the following artists, who may or may not be related.

A. His graffiti-art works, often painted on public walls, were seen by many to represent the diversity of the hip-hop culture and the New York underworld he lived in from 1960 until his death from a drug overdose in 1986.

Answer: Jean-Michel Basquiat

B. At the time of his death, his style was not at all similar to those of his contemporary Dutch artists; four hundred years later, however, such works as *The Tribulations of St. Anthony* influenced many Expressionists and Surrealists.

Answer: Hieronymus Bosch

C His early training, under Fra Filippo Lippi, helped him develop a sensual style that he often applied in painting mythologically-based scenes, such as *The Birth of Venus*. In his later years, however, he fell under the influence of Savonarola, abandoned pagan themes in his work, and died in obscurity in Florence in 1510.

Answer: Sandro Botticelli

11. Name the Shakespearean work from lines on a 30-20-10 basis.

30: "Why raillest thou on thy birth? the heaven and earth? Since birth, and heaven, and earth, all three do meet in thee at once, which thou at once wouldst lose."

20: "He jests at scars that never felt a wound."

10: "She is the fairies' midwife, and she comes in shape no bigger than an agot-stone on the forefinger of an alderman, drawn with a team of little atoms over men's noses as they lie asleep."

Answer: Romeo and Juliet

12. Identify the following from Norse mythology, FTPE.

A. When the mists of Niflheim and the fires of Muspelheim combined, a mist was created, from which was formed this giant, whose body was later used to create the earth and heavens.

Answer: Ymir

B. Also formed from the same mist was this giant cow whose milk, formed from the melting ice, fed Ymir.

Answers: Audhumla or Audhumia

C. Audhumla sustained herself by licking at the salty ice of Niflheim, causing this man, Odin's father, to spring from the ice.

Answer: Bor

13. Given a heck of a lot of information, name the Nobel Prize winner, ten each.

A. Chemistry, 1918, from Germany. Won for synthesizing ammonia from its elements.

Answer: Fritz Haber

B. Physics, 1923, from the United Kingdom. Won for his work on the elementary charge of electricity and on the photoelectric effect.

Answer: Robert Andrews Millikan

C. Physiology or Medicine, 1948, from Switzerland. Won for his discovery of the high effectiveness of DDT as a contact poison against several arthropods.

Answer: Paul Hermann Müller

14. Persian, Lydian, Assyrian, or none? Given the following rulers of the ancient world, identify which kingdom or empire he oversaw, five points each.

A. Xerxes

Answer: Persian

B. Sargon II

Answer: Assyrian

C. Croesus

Answer: Lydian

D. Sargon I

Answer: none

E. Cambyses

Answer: Persian

F. Ashurbanipal

Answer: Assyrian

15. After a brief description, identify these books centering on an American city FTPE.

A. This 1886 novel by Henry James, one of the first American novels to deal with lesbianism, follows the struggle between Olive Chancellor and Basil Ransom for the domination of the beautiful, young Verena Tarrant.

Answer: The *Bostonians*

B. In this 1863 poem, Emerson denounces kings, aristocrats, and all forms of slavery in a fervent expression and glorification of self-reliance and independence.

Answer: *Boston Hymn*

C. Upton Sinclair's 1928 novel retells the Sacco & Vanzetti story through the eyes of Cornelia Thornwall, a 60-year-old expatriate from Boston's high society.

Answer: Boston

16. Given a description, name the kind of cloud FTP each.

A. Generally, these clouds are the highest, forming "mares tails" at altitudes between 20,000 and 40,000 feet. They are often seen as delicate white filaments, featherlike tufts, or fibrous bands of ice crystals.

Answer: Cirrus

B. These are dark gray clouds that usually cover the entire sky at about 1,500 to 6,500 feet. They may be rounded or wavelike, and there are often blue sky streaks between them. They contain moisture but usually do not produce rain.

Answer: Stratocumulus (no prompt on "cumulus")

C. These clouds are also called thunderheads. They vary in altitude, from dark lower portions below 5,000 feet to white, anvil shaped tops that can reach up to 50,000 feet.

Answer: Cumulonimbus