

ST. LOUIS OPEN – 1999

Round Two

Toss-Up Questions

1. Formerly known as ethereal salts, the term was deemed misleading because, unlike salts, they do not ionize in solution. They are usually colorless, neutral liquids that are pleasant-smelling and insoluble in water. One important method of their synthesis involves the reaction of the silver salts of acids with an alkyl halide. Another method involves the chloride of an acid. They are biologically important since all natural fats and oils are mixtures of this substance. FTP, identify this organic compound formed by the reaction of acids and alcohols in water.

Answer: esters

2. It was marked by a great flowering of literature and the arts, but also by a weakening of central authority and the division of the country into large estates ruled by feudal lords. It began when Yoshifusa took the office of regent, or *sessho*, for his nephew Mototsune, who became the first *kampaku*, or chancellor. The tradition continued with its greatest statesman, Michinaga, whose daughters married five successive emperors. FTP, identify this Japanese dynasty, succeeded by the Taira clan, that ruled from the 9th to the 12th century C.E.

Answer: Fujiwara

3. It is a chronicle of the title character's thoughts and feelings through a June day's trivia, from her shopping for flowers to greeting the guests at the party that ends the novel. Her reminiscent experience recalls her encounters with a former suitor who has been in India for the last five years. The specter of death interrupts her party with news of the suicide of a young man, a victim of wartime shell shock who had seen "the insane truth" and hurled himself from a window. FTP, identify this 1925 pioneering novel in the stream of consciousness style by Virginia Woolf.

Answer: Mrs. Dalloway

4. At approximately 225,000 square miles, the Khoikhoi and San peoples occupy this region and it is bordered on the north by the Okavango River valley. Its surface is generally covered with red soil and low-growing grasses and brush, except in the east, where large patches of sand are found. The Scottish explorer David Livingstone crossed it in 1849 and many Boers died of thirst in 1878-79 while trying to cross it into Angola. FTP, identify this African desert, bordered by the Orange River on the south, that spans northern South Africa and southwestern Botswana.

Answer: Kalahari Desert

5. The title character is betrothed to Arturo Bucklaw, but loves (*) Edgardo and attempts to maintain a secret relationship with him. The couple is discovered by Normanno, captain of the guards, and reported to Enrico, brother to the title character and master of the estate. Furious, Enrico forges a letter proclaiming Edgardo does not love her anymore and coerces her to marry Arturo. When she learns of the ruse, the title character stabs and kills Arturo on their wedding night and then dies of grief. Learning of this, Edgardo kills himself as well, ending the tragedy. FTP, identify this Donizetti opera based on a tragic story by Sir Walter Scott.

Answer: Lucia di Lammermoor (* - prompt on The Bride of Lammermoor up to this point)

6. When the Nationalist Socialist Party came to power in Germany, this scientist left his native Hungary and went to England, where he began his work in nuclear physics. After World War II, he ceased his research and became a professor of biophysics at the University of Chicago in 1946. He is better known for his role during WWII, however, persuading Einstein to write a letter to Roosevelt in favor

of atomic weaponry. FTP, identify this Hungarian-born American physicist who, along with Enrico Fermi, was the first to create a controlled nuclear chain reaction.

Answer: Leo Szilard

7. Democratic senators Wayne Morse of Oregon and Ernest Gruening of Alaska were the only two to vote against it, and it was approved unanimously in the House, 416-0. It was passed after two American naval vessels, the USS Maddox and the USS Turner Joy, claimed to have been attacked. However, it was later shown that the Maddox and the Turner Joy were conducting reconnaissance missions off of the North Vietnamese coast. FTP, identify this 1964 resolution, repealed in 1970, that enabled President Lyndon B. Johnson to take all necessary measures to protect U.S. forces in Vietnam.

Answer: Gulf of Tonkin Resolution or Tonkin Gulf Resolution

8. He founded and was editor of the *National Gazette* for many years, a newspaper that gave forceful expression to the libertarian ideals of Jeffersonian democracy and attacked the policies of Hamilton and the Federalists. His experience as a British prisoner of war prompted him to write the poem *The British Prison-Ship* in 1781. His reputation as a satirist was first achieved with a series of vitriolic poems attacking the British shortly after the outbreak of the Revolutionary War. FTP, identify this "Poet of the American Revolution," the creator of such works as *The House of Night* and *The Indian Burying Ground*.

Answer: Philip Morin Freneau

9. Although the idea is contained in Plato's *Republic*, the concept did not achieve prominence until the 19th century. One manifestation of this theory came in the Johnson Act of 1924, which severely limited immigration into the U.S. from Eastern European and Mediterranean countries. The positive side of the theory concentrates on the means to increase the breeding potential of especially "fit" individuals, while the negative aspect emphasizes restrictions on breeding for the "unfit." FTP, identify this disreputable social theory, founded by Sir Francis Galton, aimed at "improving" the genetic quality of human stock.

Answer: eugenics

10. In his mid-twenties he joined an intellectual circle called The Academy of Fists, through which he became acquainted with the French and British philosophers of his day. His magnum opus, published in 1764, employs the philosophical theories of social contract and utility to argue that punishment should be swift and related to the crime. However, the crux of his discourse lies in the idea that severe punishments should be abandoned altogether. FTP, identify this Italian philosopher who expounded on the cruelty of the criminal justice system in his country in *On Crimes and Punishments*.

Answer: Cesare Beccaria

11. It is synthesized by an enzyme named uridine diphosphate-2-acetamido-2-deoxy-D-glucose, isolated from the organism *Perspectania eridania*. The distribution of the three crystallographic forms of this substance do not appear to be related to taxonomy, though the various supporting structures they constitute exhibit striking differences in morphology, chemical composition, and physical characteristics. FTP, identify this hard, cellulose-resembling compound that constitutes much of the exoskeleton of various arthropods.

Answer: chitin

12. He served as comptroller of the currency in the U.S. Department of Treasury from 1897-1901. He was also the first director of the newly created Bureau of the Budget from 1921-1922. From 1924 to 1932, he headed a commission that greatly improved the financial operations of the Dominican Republic and was appointed U.S. ambassador to Great Britain. All this occurred, however, after he chaired the

Allied Reparations Commission in 1923. FTP, identify this Nobel Peace Prize recipient and vice-president who developed his namesake plan for Germany to repay Allied nations for war reparations after World War I.

Answer: Charles G. Dawes

13. The narrator is Rai Merchant, world famous photographer and life-long friend to the two main characters: Ormus Cama, a supernaturally gifted musician, and his beloved, Vina Apsara, a half-Indian woman with a “soul-thrilling” voice. The two meet in Bombay in the late 50s, discover rock and roll, and form a band that goes on to become the world’s most popular musical act. Their story lasts over two decades until an earthquake finally swallows Vina. FTP, give the title of this 1999 novel that indicates what disappeared under Vina Apsara, written by Salman Rushdie.

Answer: *The Ground Beneath Her Feet*

14. It’s filled with memorable characters, such as Chief Dan George’s aging Cherokee, fuss-budget Grandma Sarah, and a carpetbagger in a lily-white suit that gets soiled at every turn. This film depicts the post-Civil War South very accurately as the main character, a former Confederate soldier, returns home to find his family killed. He goes on a killing rampage to avenge the death of his family, much like the lead actor’s other starring roles. FTP, identify this 1976 pseudo-Western starring Clint Eastwood as the movie’s title outlaw.

Answer: *The Outlaw Josey Wales*

15. In 1620, King James I had architect Inigo Jones attempt to explain its construction. Jones drew the conclusion that the Romans alone were capable of building it. Forty years later, John Aubrey, under the auspice of King Charles II, explored the site, becoming England’s first archaeologist. He was the first to discover the shallow pits surrounding it now known as the Aubrey Holes. Aubrey came to the conclusion that it was the work of ancient Druids rather than the Romans. FTP, identify this ancient megalithic monument and architectural wonder that marks Salisbury Plain in England.

Answer: Stonehenge

16. It was first discovered by German mathematician Johann Titius in 1766 and published by its namesake scientist in 1772. The numbers 4, 7, 10, 16, 28, 52, 100, and 196 are the proportions calculated by adding 4 to each member of the series 0, 3, 6, 12, 24, etc. The law worked extraordinarily well for what was known at the time, but the newly discovered cases of Neptune and Pluto deviated wildly from what was predicted by this law, and effectively rendered it a coincidence. FTP, identify this quasi-law of astronomy that states that an arithmetical relationship exists between the distances of the planets from the sun.

Answer: Bode’s Law

17. The English forces, numbering 60,000, were en route to the relief of a besieged English stronghold, Stirling Castle. After inconclusive skirmishing between patrols of the two armies, the English launched a mass attack, led by cavalry. Their opponents, however, had prepared the ground before with a series of deep, camouflaged pits. The English cavalry blundered into the pits and were slain by Scottish pikemen, leading to the decisive defeat of Edward II’s forces. FTP, identify this June 24, 1314 battle that supposedly won the Scots their independence from England.

Answer: Battle of Bannockburn

18. Set in the village of Ilujinle, it is the story of the Lakunle, a Yoruba youth, and his desire to marry Sidi, a beautiful maiden. Unfortunately for Lakunle, Sidi finds his European predilections less than amusing and loves Baroka, whose nickname forms part of the title of this play. Baroka is vain and treacherous,

and tricks Sidi into sleeping with him at the end. FTP, identify this 1963 play about traditional Nigerian customs, one of the best-known works of Wole Soyinka.

Answer: *The Lion and the Jewel*

19. The Greeks and Romans called him Harpocrates, and a lesser-known representation of him is as an infant with a finger held to his lips. He avenged the death of his father by murdering his uncle. The son of Osiris and Isis, he was worshipped throughout Egypt and usually represented as a falcon or falcon-headed man. FTP, identify this Egyptian god of the sky, light and goodness.

Answer: Horus

20. “The power of ordinary men are circumscribed by the everyday worlds in which they live...” is how this book begins. The author then goes on to differentiate between the “big three” institutions of society: the economic order, the political order, and the military order. To have influence and power, one must have access to one of the big three institutions; thus, power is not inherent to mankind, but accessed through the proper channel. FTP, identify this 1956 work written by Columbia sociologist C. Wright Mills.

Answer: *The Power Elite*

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Bonus Questions

1. This question-writer learned nothing after taking a course in macroeconomics last semester. However, that won't stop me from testing you're knowledge of the subject. Identify the following terms given a definition FTPE.

- a) This curve depicts the rate of unemployment on the horizontal axis and either the rate of inflation or the rate of change of money wages on the vertical axis. It is usually downward sloping.

Answer: Phillips curve

- b) This is the total amount that all consumers, business firms, and government agencies are willing to spend on final goods and services.

Answer: aggregate demand

- c) This term means selling goods in a foreign market at lower prices than those charged in the home market.

Answer: dumping (accept equivalents)

2. Given a brief description, identify the painting by Titian FTSNOP.

- a) (15 points) This altarpiece is Titian's second greatest in the Church of the Frari in Venice, the major altarpiece being his *Assumption of Mary*. The title Bishop, victor over the Turks in the Battle of Santa Maura of 1502, kneels before Saint Peter and the Virgin Mary.

Answer: Pesaro Altarpiece

- b) (5 points) The title character of this painting reclines nude on a sofa while two women examine the contents of a chest in the rear behind a curtain.

Answer: Venus of Urbino

- c) (10 points) The foreground of this painting is dominated by three cherubs and a woman being carried away on a flying bull while onlookers watch in shock on an island in the distance.

Answer: The Rape of Europa

3. Identify the Eugene O'Neill play from a list of characters FTSNOP.

- a) (5 points) Mary, Edmund, Jamie, and James Tyrone

Answer: Long Day's Journey into Night

- b) (10 points) James, Kate, Andrew, and Robert Mayo

Answer: Beyond the Horizon

- c) (15 points) Yank, Paddy, Long, and Mildred

Answer: The Hairy Ape

4. Identify the following terms regarding superconductivity FT5PE.
- a) This term designates two electrons that, when situated a certain way among positive ions, no longer repel each other but instead develop an attraction for each other. These pairs then accumulate and move in the same direction; the result is a superconducting metal because there is no resistance in the flow of electricity.
- Answer: Cooper pair
- b) This phenomenon has found application in devices that detect and generate high-energy electromagnetic radiation, and in the detection of extremely weak magnetic fields. It is the flow of electric current, in the form of Cooper pairs, between two superconducting materials that are separated by an extremely thin insulator.
- Answer: Josephson effect or junction
5. Given a description, identify the following battles that took place during the Mexican War FTPE.
- a) This battle took place along the Gulf Coast north of Matamoros and the Rio Grande. General Taylor's artillery caused heavy casualties to Mariano Arista's Mexican soldiers in this battle fought before President Polk signed the declaration of war.
- Answer: Battle of Palo Alto
- b) In early 1847, half of Taylor's troops were reassigned to General Winfield Scott to aid in his campaign. Santa Anna, learning of Taylor's weakened position, immediately set forth to attack. Taylor learned of the march and met Santa Anna here in February 1847, about 45 miles west of Monterrey. The battle ended in a stalemate.
- Answer: Battle of Buena Vista
- c) Taylor's troops were reassigned to aid Scott in the siege of this coastal city. The invasion was accompanied by an artillery bombardment that killed approximately 1500 soldiers and civilians. Only 67 Americans were killed or wounded at this March 1847 battle.
- Answer: Battle of Veracruz
6. This bonus will require you to write down the following list (Note to moderator: read list slowly):
Versus, No Code, Vitalogy, Yield, Ten.
- a) FFP, what band's albums bear those five titles?
- Answer: Pearl Jam
- b) Next, FFPE put Pearl Jam's five albums in order of their release, from earliest to latest.
- Answer: Ten, Versus, Vitalogy, No Code, Yield
7. Answer the following questions about the death of the Norse god Balder FT5NOP.
- a) (5 points) What trickster god was the indirect cause of Balder's death?
- Answer: Loki
- b) (10 points) Which god, the brother of Balder, did Loki trick into throwing the mistletoe that killed him?

Answer: Hod or Hoder

- c) (15 points) Which goddess, the wife of Balder, died from grief at her husband's funeral?

Answer: Nanna

8. Identify the author, 30-20-10.

- a) He was admitted to the bar in 1890, but abandoned law for writing. He wrote his early works under the pen name John Sinjohn.
- b) His *A Modern Comedy*, containing the works *The White Monkey*, *The Silver Spoon*, and *The Swan Song*, was published in 1929 and was a continuation of his most famous series of novels.
- c) His most famous series of novels includes *The Man of Property*, *Indian Summer of a Forsyte*, *In Chancery*, *Awakening*, and *To Let*. These five titles were all published under the name *The Forsyte Saga* in 1922.

Answer: John Galsworthy

9. Answer the following questions about geological faults FTPE.

- a) The two sides of a fault are separated by a fault plane. Identify the term used to describe the orientation of a fault plane in terms of compass directions.

Answer: strike

- b) Identify the term used to describe how steeply a fault emerges from the ground. This measure varies from zero degrees for a horizontal fault to 90 degrees for a vertical one.

Answer: dip

- c) These types of faults are common at transform-plate boundaries where two crustal plates are moving past each other. The net displacement is parallel to the strike, and such faults are associated with crustal shearing. The San Andreas Fault is an example of this type of fault.

Answer: strike-slip fault

10. Given a treaty and the year it was signed, identify the war it concluded FTSNOP.

- a) (5 points) Treaty of Aix-la-Chapelle, 1748

Answer: War of Austrian Succession

- b) (10 points) Treaty of Ryswick, 1697

Answer: War of the League of Augsburg or King William's War

- c) (15 points) Treaty of Vienna, 1735

Answer: War of the Polish Succession

11. Given a musical work, identify the composer and the author or poet who inspired the work F5PE.

- a) *Peer Gynt*

Answer: Edvard Grieg and Henrik Ibsen

- b) *Ruslan and Ludmilla*

Answer: Mikhail Glinka and Aleksandr Pushkin

- c) *Péleas et Mélisande*

Answer: Claude Debussy and Maurice Maeterlinck

12. Given a description, identify the following rivers in Asia FTSNOP.

- a) (5 points) This river rises in the Kunlun Mountains and flows into the East China Sea. It is the longest river in Asia.

Answer: Yangtze River

- b) (10 points) This river flows from southwestern Tibet and empties into the Bay of Bengal. At the Ganges delta, it splits into two channels, the major channel becoming the Jamuna River.

Answer: Brahmaputra River

- c) (15 points) This river is Lake Baikal's only outlet. It flows west from the Lake into the Yenisey River.

Answer: Lower Angara River

13. Given a brief description, identify the Aristophanes play FTSNOP.

- a) (5 points) The title character of this 411 B.C.E. play encourages the women of Athens to participate in a sex strike against the men until they cease warring with other states.

Answer: Lysistrata

- b) (10 points) Performed in 424 B.C.E., this play, the first written under Aristophanes' own name, satirized the Athenian politician and military leader Cleon.

Answer: The Knights

- c) (15 points) This play reduced to absurdity the concept of redistribution of wealth in Athens when it was first performed in 388 B.C.E.

Answer: Plutus

14. Answer the following questions about everyone's favorite protein, hemoglobin, FTSNOP.

- a) (5 points) What element in hemoglobin is responsible for binding to oxygen?

Answer: Fe or iron

- b) (15 points) What Austrian-born British biochemist shared the 1962 Nobel Prize in Chemistry for determining the three-dimensional structure of hemoglobin through X-ray crystallography?

Answer: Max F. Perutz

- c) (10 points) After 120 days, red blood cells are sent to and disassembled by which organ?

Answer: spleen

15. Answer the following questions about unsuccessful plots from history FTPE.

- a) This conspiracy sought to place Mary, Queen of Scots, on the throne by means of assassinating Elizabeth I. It was uncovered by one of Elizabeth's secretaries of state, Sir Francis Walsingham. This plot is named after Mary's former page.

Answer: Babington Plot

- b) This failed plot sought to assassinate James I in 1605, and is celebrated annually in the United Kingdom on November 5 where the assassin, Guy Fawkes, is burned in effigy.

Answer: Gunpowder Plot

- c) The suspected conspirators of this plot were Erwin Rommel and Hjalmar Horace Greeley Schacht. It was a failed attempt by German officers and civilians to assassinate Adolf Hitler in 1944. This plot is named after the month in which it occurred.

Answer: July Plot

16. Given a brief description, identify the Chinese philosopher FTPE.

- a) Considered the most important Confucian writer after Confucius, he emphasized the importance of humanity (*jen*) and righteousness (*i*), and argued that human nature is essentially good. His writings comprise one of the Four Books of Confucianism.

Answer: Mencius or Meng-Tzu

- b) This Chinese philosopher criticized Confucianism for being too ritualistic and socially passive. He argued that to ward off social chaos, we should love everyone as a matter of self-interest.

Answer: Mo-Tzu

- c) Living circa 12th century C.E., he was the most influential Neo-Confucian philosopher whose interpretation of Confucianism became the standard view until the 20th century. For him, the "investigation of things" entailed knowledge of the structural form (*li*) of the universe, as distinct from the material force (*ch'i*).

Answer: Chu Hsi

17. Given a country, identify its legislative body FTPE.

- a) Iceland

Answer: Althing

- b) Mongolia

Answer: People's Great Hural or Great Khural

- c) Israel

Answer: Knesset

18. Given a brief description, identify the work of children's literature FTPE, or F5PE if you need the author of the work.
- a) (10 points) Much of this story focuses on Mary, an orphan who has been sent from India to England to live with an uncle whom she has never met. In this novel, three children find a hidden garden and work to cultivate it.
- (5 points) France Hodgson Burnett
- Answer: *The Secret Garden*
- b) (10 points) Three siblings must move from their comfortable town life to the unfamiliar countryside. Initially unhappy, they soon discover happiness by the nearby railroad tracks.
- (5 points) Edith Nesbit
- Answer: *The Railway Children*
- c) (10 points) Written from the perspective of the title character, this novel tells of the life of a horse and its various experiences with its owners.
- (5 points) Anna Sewell
- Answer: *Black Beauty*
19. Given a molecule, give its molecular shape F15PE. You have ten seconds to complete each part.
- a) NH_3
- Answer: trigonal pyramidal
- b) XeF_4
- Answer: square planar
20. Answer the following questions about events that took place during the presidency of James Buchanan FTSNOP.
- a) (5 points) This man, who later ran against Abraham Lincoln in the election 1860, served as Buchanan's vice-president.
- Answer: John C. Breckinridge
- b) (10 points) When the Kansas-Nebraska Act was passed in 1854, the proslavery forces formed a government in a Kansas town in order to influence the admission of Kansas to the Union as a slave territory. Identify the short-lived constitution they drafted, named after the town in which their government was established.
- Answer: Lecompton Constitution
- c) (15 points) In January of 1861, Buchanan sent this merchant vessel to Charleston, South Carolina, with supplies for the federal fortress Fort Sumter. Upon arrival, this ship was fired on by Confederate shore guns and forced to withdraw. Identify this merchant ship.
- Answer: Star of the West

21. Identify this book, 30-20-10.

- a) Sections of this book include *Yasna*, *Visperad*, and *Vendidad*, as well as its namesake chapter.
- b) Written in ancient Persian about 2500 years ago, it deals with the dichotomy between light and dark and the two representative gods of each.
- c) Those two gods are Ahriman, the god of darkness, and Ahura Mazda, the god of light and creator god of Zoroastrianism.

Answer: *Zend-Avesta*