

ST. LOUIS OPEN – 1999
Round Seven

Toss-Up Questions

1. The second verse keeps referring to Moloch. "...Moloch the / loveless! Mental Moloch! Moloch the heavy / judger of men!" It was first published by Lawrence Ferlinghetti's bookstore, City Lights, and is an angry indictment of America's false hopes and promises. The poet makes sure the reader knows this poem is dedicated to Carl Solomon, as the last verse keeps assuring us that he's with Carl in Rockland. FTP, identify this 1956 poem in which Allen Ginsburg tells us he "saw the best minds of my generation destroyed by / madness, starving hysterical naked..."

Answer: Howl

2. The nucleus accumbens; the nucleus basalis; the parahippocampal gyrus; the septal nucleus; the cingulate gyrus; the amygdala; and the hippocampus are all part, FTP, of what system of the brain which forms a ring structure around the central core and is involved in many physiological and emotional responses?

Answer: limbic system (prompt on visceral brain; prompt on brain on an early buzz)

3. Born Gertrud Margarete Zelle, she was educated, ironically, in a convent in the Netherlands until she settled in Paris shortly after 1900. In Paris, she began to perform erotic dances for private gatherings. In 1907, she changed her career path slightly and enrolled in a school in Lörrach, Germany for espionage. Through her liaisons with high-ranking Allied officers, she was able to obtain important military information during World War I. FTP, identify this Dutch courtesan and famous WWI spy who was executed by the French in 1917.

Answer: Mata Hari

4. It is built around the world's second largest natural harbor, which offers ice-free anchorage for international shipping. Overlooking downtown is the Citadel, a mid-19th century fortification. Below the Citadel sits the city's most famous landmark, the Old Town Clock, built in 1803, as well as St. George's, the first round church built in North America. In 1996, this city merged with the former city of Dartmouth to form the largest urban center in Canada's Atlantic provinces. FTP, identify this Canadian city, the capital of Nova Scotia.

Answer: Halifax

5. Tragedy surrounded all the women in his life. His sisters were Procne and Philomela, who were turned into the nightingale and swallow, respectively. His daughters were Procris, who vied for the love of Cephalus with Aurora; Orithiya, who was raped by Borealis, the North Wind; and Creüsa, who gave birth to Apollo's son Ion. He himself was ruling Athens when Demeter came to Eleusis and agriculture began, and he was the son of Hephaestus, reared by Athena. FTP, identify this half-man, half-serpent king of Attica who had a building on the Acropolis named after him.

Answer: Erechtheus or Erichthonius (do not accept Erectheum)

6. It was originally the name of an ancient Greek god of healing, but was later applied as an epithet to Apollo as the healer. Composed by such ancient poets as Bacchylides and Pindar, the term came to refer to a recognized division of Greek choral lyric poetry usually addressed to Apollo. The term for this type of poetry also came to be applied to prayers or hymns accompanying the libation at a sacrifice or marriage feast. FTP, identify this five-letter term that labels a type of exultant or triumphant song or speech.

Answer: paean

7. In one recent book, he contends that some aspects of the human mind and consciousness lie beyond computation. This conclusion is not unusual itself, but this scientist employs a primarily mathematical approach to explore issues of computation and consciousness in such works as *Shadows of the Mind* and *The Emperor's New Mind*. FTP, name this mathematician best known for his work on plane-covering tiling patterns, including the aperiodic dart-and-kite pattern and the pentagonal pattern, who shared the 1988 Wolf Prize with Stephen Hawking.

Answer: Roger Penrose

8. According to this treaty, the United States government also assumed, to a limit of \$5 million, the claims of its citizens against Spain and gave up whatever title to Texas it had acquired under the terms of the Louisiana Purchase. Spain was also accorded certain tariff privileges for Spanish goods in Florida ports, but was forced to cede all its claims to the Oregon country up to the 42nd parallel. FTP, identify this 1821 treaty that defined the western boundary of the United States and forced the Spanish to cede Florida to the United States.

Answer: Adams-Onís Treaty

9. Manjusri, who represented wisdom; Samantabhadra, who represented happiness; and Avalokitesvara, who represented compassion, all held the position at one time. Maitreya, who will represent loving kindness, is the one recognized by Theravada Buddhists as the future Buddha. Everyone who held this position was one of the ten incarnations on the road to spiritual perfection. FTP, identify this term that signifies one who delays the final reward of nirvana out of compassion and for the salvation of all other sentient beings.

Answer: bodhisattva

10. He conducted the American premiers of Smetana's *The Bartered Bride* and Tchaikovsky's *Queen of Spades*. He also conducted the New York Philharmonic, earning the highest salary at that time for a conductor in the U.S. He refused to compose a ninth symphony after realizing that Beethoven and Bruckner had died after their ninths. Instead, he called his ninth *Das Lied von der Erde* or *The Song of the Earth*, but eventually titled his next one Ninth, and died in the midst of his Tenth. FTP, identify this Bohemian composer of *Symphony of a Thousand* and *The Titan*.

Answer: Gustav Mahler

11. Three manuscript versions of it exist today. It was written in accented alliterative verse and is thought by some to be the work of five poets. Most, however, agree that it was written by one person. Taking the form of a dream vision, this lengthy poem bitterly satirizes corruption among the king and clergy by following the trials of an English farmer who represents purity and goodness. FTP, identify this medieval poem supposedly written in the 14th century by William Langland.

Answer: The Vision of William Concerning Piers the Plowman or Piers Plowman

12. It was first observed with hydrohalogenation, but it has also been observed with acid catalyzed hydration and hypohalous addition. The success of this rule lies in the understanding of the intermediate that is formed after the hydrogen ion has attached to the alkene with the use of the pi electrons from the double bond. FTP, identify this rule from organic chemistry that states that whenever a protic reagent reacts with an asymmetrical alkene, the hydrogen ion always seems to attach itself to the sp² carbon that has the most hydrogens attached.

Answer: Markovnikov's rule

13. His eldest son, Wamsutta, became sachem, or chief, upon his death in 1661. His grandson Metacomet, or Philip, engaged the colonists in the conflict now known as King Philip's War. This chief of the

Wampanoag tribe governed the greater part of what is now Massachusetts and Rhode Island. Uncas of the Mohegans made war upon this leader and his tribe, but the English intervened on his behalf and forced Uncas to surrender. FTP, identify this Native American chief who signed a treaty with the Pilgrims of Plymouth Colony and invited them to the first Thanksgiving Day feast.

Answer: Massasoit

14. It was published posthumously in 1677 in five parts. Its most visibly distinguishing feature is that it is modeled after Euclid's geometry. Each of the five parts opens with a brief list of definitions and axioms and from these a series of propositions are deduced. This work explains the philosopher's pantheism, explaining, "Besides God, no substance can be granted or conceived," resulting from his crypto-Jewish background. FTP, identify this 18th century seminal work in philosophy authored by the Dutch philosopher Baruch Spinoza.

Answer: Ethics

15. His paintings became outmoded as the French Revolution approached, and he was reduced to poverty. Ironically, he was supported by a curatorship given to him by Jacques-Louis David, whose style was antithetical to his own. He formed his style after his teacher François Boucher and was also influenced by the Italian master Giovanni Battista Tiepolo. After 1765, he worked in the rococo style, reflecting the gaiety, frivolity, and voluptuousness of the period in such paintings as *Bathers*. FTP, identify this French rococo artist best known for *The Pursuit* and *The Lover Crowned*.

Answer: Jean-Honoré Fragonard

16. From the Provençal word meaning "to find" or "to invent," over 400 were known to have lived, the majority being nobles and kings. Their verse subjects included love, religion, politics, war, funerals, and nature. Composing and performing songs was a manifestation of chivalry for them, and their musical accompaniments were generally played on stringed instruments. They competed in tournaments of song and engaged itinerant musicians called jongleurs to perform their works. FTP, identify these French poet-musicians who flourished in medieval France, most from the region of Provence.

Answer: troubadours (accept trouvères grudgingly)

17. For macroscopic systems, the statistical formulation of entropy implies that the second law of thermodynamics is overwhelmingly likely to be accurate. This imaginary construct, however, does allow a non-zero probability of the second law being measurably inaccurate. It was invented to demonstrate that there could be situations in which the idea of entropy is violated. FTP, identify this idea purported by a Scottish physicist for a tiny creature that separates hot and cold molecules by opening and closing a valve, allowing only the hot molecules through.

Answer: Maxwell's Demon

18. Pope Innocent X condemned this movement's five propositions, derived from its founder's Augustinus, in 1653. Its followers' abbey at Port-Royal was destroyed in 1709 and the papal bull *Unigenitus dei filius* condemned them in 1713. Its assertion that an individual's salvation lies in absolute reliance upon divine grace made the name synonymous with moral ascetics and rigor and especially anti-Jesuit sentiment. FTP, identify this 18th century radical Catholic movement that dissolved the Jesuits in France in 1762, named after the bishop of Ypres that was its founder.

Answer: Jansenism or Jansenists

19. The one Roger's Mom calls "The Short-Haired One" is the national spokesperson for the Sickle Cell Disease Association of America. The one Roger's Mom calls "The Cute One" recently had a baby with super-producer Dallas Austin. And the one Roger's Mom calls "Eyepatch" was recently in

trouble for with the law for setting fire to then-boyfriend, Atlanta Falcons player Andre Rison's mansion. FTP, identify this R&B super-trio whose latest album, *Fan Mail*, will probably go multiple platinum like their previous album, *CrazySexyCool*.

Answer: TLC

20. He maintained that human institutions should be examined in the context of the culture as a whole, and thus is considered one of the founders of the "functional" school of anthropology. His research into the formation of human culture took him to Latin America, various parts of the United States, and Africa, where he taught one of his most famous pupils. His published works include *Crime and Custom in Savage Society* and *Magic, Science, and Religion*. FTP, identify this British anthropologist, the teacher of Jomo Kenyatta and researcher of the peoples of the Trobriand Islands.

Answer: Bronislaw Malinowski

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Bonus Questions

1. Boy, there sure are a lot of people named Roger in baseball history. Identify the following baseball Rogers FTSNOP.
- a) (5 points) This five-time Cy Young Award winner had a tremendous career with the Boston Red Sox before being traded in 1997 to the Toronto Blue Jays. This pitcher is nicknamed “the Rocket” due to his fastball, regularly clocked at above 90 m.p.h.

Answer: Roger Clemens

- b) (10 points) This third baseman is considered by many to be the greatest long-ball hitter of the 19th century. Not only is he credited with the first grand slam in major league history, but also his record of 138 career home runs stood unbeaten until broken by Babe Ruth in 1921.

Answer: Roger Connor

- c) (15 points) This player and manager was elected to the Baseball Hall of Fame in 1945. His career as a manager spanned such teams as the St. Louis Cardinals, the Chicago Cubs, and the New York Giants. As a player, he was an extraordinary catcher and devised the shin guards worn by catchers today.

Answer: Roger Philip Bresnahan

2. Answer the following questions about the philosophy of Georg Wilhelm Friedrich Hegel F15PE.

- a) According to Hegel, the mind is universal and therefore cannot be identified with the mind of any particular person. Rather, each particular mind is an aspect of a greater consciousness. Identify this collective term in which each person is a phase of the absolute.

Answer: world mind or weltgeist

- b) Hegel was preoccupied with the triadic development of the mind. One concept, the thesis, is followed by its opposite, the antithesis; the ensuing conflict between the two is brought together at a higher level as a new concept, or synthesis, which becomes the thesis of yet another triad. Identify this concept developed extensively by Hegel.

Answer: Hegelian dialectic

3. Identify the following Scottish poets FTSNOP.

- a) (15 points) One of the first major Scottish poets, this archdeacon of Aberdeen wrote *The Bruce* in 1375, a 14,000-line poem telling the tragic story of the Scottish king Robert the Bruce.

Answer: John Barbour

- b) (10 points) One of the greatest Scottish poets of the 20th century, his most famous poem is *Drunk Man Looks at the Thistle*. This poet was considered the leader of the so-called Scottish Renaissance and attempted to revive a true Scottish poetry and vocabulary.

Answer: Hugh MacDiarmid (accept C.M. Grieve)

- c) (5 points) Perhaps the most famous of all Scottish poets, this 18th century writer's most famous works include *Comin' Thro' the Rye*, *Auld Lang Syne*, and *To a Mouse*.

Answer: Robert Burns

4. Given a description, identify the following nuclear science terms F15PE.

- a) This type of reactor has as its coolant and heat transfer mechanism molten sodium. Its fuel is Pu-239, spontaneously and continuously generated from U-238.

Answer: breeder reactor (accept fast breeder reactor)

- b) It is the process of converting uranium from 0.7% to 3% U-235. The higher concentration is needed for fuel rods, but an extension of this process can be used for making weapons-grade material.

Answer: enrichment

5. Given a description, identify the following historical "affairs" FTPE.

- a) This affair occurred on the eve of the American Revolution. A British customs ship ran aground off the coast of Rhode Island, where colonists from Providence imprisoned the crew. Great Britain sent an investigatory commission to resolve the issue.

Answer: Gaspée affair

- b) This conflict took place between Germany and France prior to World War I when French troops were dispatched to Morocco to restore order. This was in violation of the Algeiras Conference in 1906, which settled a dispute between European powers over Morocco.

Answer: Agadir affair

- c) Occurring in 1894, this affair dealt with a French artillery captain of Jewish descent who was charged with treason, when, in fact, the culprit was Major Marie Charles Esterhazy. This affair prompted Émile Zola to write his famous letter *J'accuse*.

Answer: Dreyfus affair

6. Answer the following questions about the history of the United Kingdom's political parties FTSNOP.

- a) (5 points) This party formed around 1830 out of a coalition of the Whigs and Radicals. Despite a decline in power in the 20th century, they had great influence during the 19th century, especially under their leader William Gladstone.

Answer: Liberal Party

- b) (5 points) This party, the oldest in the UK, evolved as the successor to the Tory Party in the 1830s.

Answer: Conservative Party

- c) (15 points) When the Conservative Party formed, Sir Robert Peel addressed a certain parliamentary constituency. This address, named after the constituency, outlined the newly formed party's visions and goals for the future.

Answer: Tamworth Manifesto

- d) (5 points) In 1992, the Liberals and the Social Democrats merged to form a new British political party. Identify this newfound party that, in 1997, gained nearly 17 percent of the votes and 46 members of Parliament.

Answer: Liberal Democrats

7. Identify the following psychological examinations given a description FTPE.

- a) Developed by Henry A. Murray and C.D. Morgan, this test is used in contemporary personality assessment by the use of a story-telling procedure.

Answer: TAT or Thematic Apperception Test

- b) This intelligence test differs from the Stanford-Binet test in that it consists of two separate verbal and performance subscales, each with its own IQ.

Answer: Wechsler tests

- c) This is the most popular exam constructed to aid in diagnosing psychiatric patients. Items that briefly describe feelings, attitudes, and behaviors are grouped into subscales, each representing a separate personality, such as social extroversion or depression. Taken together, the subscales provide a profile of the personality as a whole.

Answer: MMPI or Minnesota Multiphasic Personality Inventory

8. Given a description, identify the following works by Johann Wolfgang von Goethe FTSNOP.

- a) (5 points) This two-part epic poem deals with the life of a mysterious metaphysician and tells the story of how he sold his soul to Mephistopheles.

Answer: Faust

- b) (10 points) This 1809 Goethe novel describes how some external force unwittingly draws lovers to one another, and took its title from a term of 18th century chemistry that was used to suggest the chemical origins of love.

Answer: Elective Affinities

- c) (15 points) Goethe first attracted attention to himself by his try at Shakespearean grandeur in this play about a 16th century German Robin Hood.

Answer: Götz of the Iron Hand or Götz von Berlichingen mit der eisernen Hand

9. Given a description, identify the following forms of mimicry F15PE. Given a description, identify the following forms of mimicry F15PE.

- a) This type of mimicry refers to the similar markings shared by harmful or poisonous related species that developed their bright warning coloration through coevolution. Named for its German discoverer in 1878, it explains why wasps, bees, and hornets look similar.

Answer: Müllerian mimicry

- b) Named for Alfred Wallace's traveling companion in 1862, species exhibiting this form of mimicry are not really poisonous to predators but resemble species that are. The viceroy butterfly's similar appearance to the distasteful monarch butterfly is the best known example of this form of deception.

Answer: Batesian mimicry

10. Answer the following about the history of silver in the United States FTPE.

- a) This 1878 act reversed the Crime of '73 and reestablished silver coins as part of the U.S. currency. The act did not increase the money supply to the amount intended.

Answer: Bland-Allison act

- b) Congress rejected demands to replace the Bland-Allison act with unlimited coinage of silver, but passed this compromise law in 1890, which required the government to purchase 4.5 million ounces of silver and issue an equal amount of money redeemable at face value in silver or gold.

Answer: Sherman Silver Purchase act

- c) Poor economic conditions prompted Congress to pass this 1934 act that directed the Treasury to buy silver until silver stocks equaled one-third of the gold reserves, or silver's price reached \$1.29 per ounce. Few economic improvements were made and the act was curtailed in 1935.

Answer: Silver Purchase act

11. Identify these archaic legal terms given a description FTPE.

- a) In former English law, it is the penalty following judgment of outlawry or sentence of death for treason or felony. A bill regarding this term refers to a parliamentary act of its imposition without judicial trial.

Answer: attainder

- b) This term refers to any law restraining excessive individual consumption, such as expenditure on food and dress, or attempting to control religious or moral conduct.

Answer: sumptuary laws

- c) Under mercantile law, this term refers to a time allowance, usually three days, during which payment may be made although the time of payment has expired. The Negotiable Instruments Law in the United States abolishes this law.

Answer: days of grace

12. Identify the following gods or goddesses from Egyptian mythology given a description FTPE.

- a) Ancient inscriptions identify him as the creator of the earth. He was regarded as the patron of metalworkers and artisans and as a mighty healer. He is usually represented as a mummy bearing the symbols of life. His main center of worship was in Memphis.

Answer: Ptah

- b) He was considered inventor of embalming, guardian of tombs, and judge of the dead. He was purported to weigh the heart of the dead against the feather of truth and was represented with the head of a jackal.

Answer: Anubis

- c) She was one of the four children brought forth by Ra, along with Shu, Geb, and Tefnut. She became the sky and gave birth to Set, Osiris, Isis, and Nephthys when she married Geb.

Answer: Nut

13. Given a passage from Ambrose Bierce's *The Devil's Dictionary*, identify the word being sarcastically defined FTPE.

- a) "A daughter of Hope and Fear, explaining to Ignorance the nature of the Unknowable."

Answer: religion

- b) "A strife of interests masquerading as a contest of principles. The conduct of public affairs for private advantage."

Answer: politics

- c) "A blessing that is of no advantage to us excepting when we part with it. An evidence of culture and a passport to polite society. Supportable property."

Answer: money

14. Believe it or not, this question-writer is licensed to operate gamma ray and x-ray machines in order to zap cancer cells. Another scary thought might be the questions resulting from this experience. Identify the following measures of radiation given a description FTPE.

- a) This SI unit is defined as a rate of one disintegration per second.

Answer: becquerel

- b) This is the traditional unit of absorbed dosage, and is defined as the energy absorption of 100 ergs per gram, or 0.01 joules per kilogram, of material.

Answer: rad

- c) This SI unit of absorbed dosage has recently replaced the rad when discussing radiation oncology. This unit is equal to 100 rads.

Answer: gray

15. Given a description, identify the following battles of the Russo-Japanese War FTPE.

- a) This last major battle of the Russo-Japanese War saw a smashing Japanese victory that forced the Russians into a U.S.-mediated treaty in June 1905. This battle is named after the former name of the capital of Manchuria.

Answer: Battle of Mukden

- b) Probably one of the greatest naval conflicts ever, this May 1905 battle was one of the only engagements fought between Dreadnought-type battleships. Named after the straits in which it was fought, the Japanese claimed victory after sinking four Russian battleships.

Answer: Battle of Tsushima

- c) Yet another Russian defeat occurred at this battle in June of 1904. This was the only Russian attempt to relieve Port Arthur, which they gave up after this defeat. The battle is named after the old name of Songshu, a city 120 kilometers northwest of Port Arthur.

Answer: Battle of Telissu

16. Identify the religious figure, 30-20-10.

- a) In 1530, he was appointed archdeacon of Taunton, made a royal chaplain, and given a post in the household of Sir Thomas Boelyn, Earl of Wiltshire.
- b) He was appointed Henry VIII's ambassador to the court of Holy Roman Emperor Charles V in 1532 and remained abroad in Germany until he was appointed to his better-known role.
- c) He was given the archbishopric of Canterbury on March 30, 1533, and on May 23 of the same year he annulled the marriage of Henry VIII and Catherine of Aragón. Within five days he pronounced legal the marriage of Henry VIII and Anne Boelyn.

Answer: Thomas Cranmer

17. Given a list of musical pieces, identify the Russian nationalist composer who created the work FTSNOP.

- a) (10 points) *William Ratcliffe*, *The Captain's Daughter*, and *The Saracen*

Answer: César Cui

- b) (10 points) *Russia*, *Tamara*, and *Islamey*

Answer: Mily Balakirev

- c) (5 points) *Pictures at an Exhibition*, *Boris Godunov*, and *A Night on Bald Mountain*

Answer: Modest Mussorgsky

- d) (5 points) *Scheherazade*, *The Flight of the Bumble Bee*, and *L'Coq d'Or* or *The Golden Cockerel*

Answer: Nikolai Rimsky-Korsakov

18. Given a country, identify that nation's highest literary award FTPE.

- a) Great Britain

Answer: Booker Prize

- b) France

Answer: Prix Goncourt

- c) Canada

Answer: Canadian Governor General's Award

19. Given the name of an industrial process, identify the chemical compound that is produced FTPE.

- a) Raschig synthesis

Answer: hydrazine or N_2H_4

- b) Ostwald process

Answer: nitric acid or HNO_3

- c) Haber process

Answer: ammonia or NH_3

20. Identify the following concerning the War of 1812 FTPE.

- a) Tensions escalated in 1807 after a British vessel approached an American frigate and demanded to search for deserters. The American vessel refused and was fired upon, after which four Americans were impressed. FTPE, identify both the American and British vessels.

Answer: U.S.S. Chesapeake and H.M.S. Leopard

- b) This was the most decisive naval engagement of the War of 1812. British forces under Sir George Prevost made a halfhearted attack on the American fleet under Captain Thomas Macdonough. This American victory averted the most serious British threat during the War.

Answer: Battle of Lake Champlain

- c) At the Battle of New Orleans, which took place after the Treaty of Ghent had been signed, Andrew Jackson successfully fended off a British landing of over 8000 men under this British general.

Answer: Sir Edward Pakenham

21. Given the title of an ancient Greek sculpture, identify the sculptor FTPE.

- a) *Doryphorus* or *Spear Bearer*

Answer: Polyclitus

- b) *Discobolus* or *Discus Thrower*

Answer: Myron

- c) *Hermes Holding the Infant Dionysus*

Answer: Praxiteles