

ST. LOUIS OPEN – 1999

Round Ten

Toss-Up Questions

1. It is a comic satire that criticizes overzealousness and hypocrisy in child rearing and religious faith. One episode in the novel recounts how the grandchild Ernest tries to conceal the fact that he has given his pocket money and valuables to the family's former maid Ellen, who is pregnant. He does not understand that his mother, Christina, suspects him of a far greater transgression than giving away his money. The story follows George, Theobald, and Ernest, three generations in the Pontifex family and their restrictive upbringing. FTP, identify this 1903 novel written by Samuel Butler.

Answer: *The Way of All Flesh*

2. Transplant of this organ remains difficult, with only one in ten lasting over one year, even with the advent of drugs such as cyclosporine. It lies transversely across the posterior wall of the abdomen, its head lying in the concavity of the duodenum. Its exocrine secretions include a mixture of enzymes that aid in digestion, but it is better known for its endocrine secretions that are produced in the islets of Langerhans. FTP, identify this organ whose failure to produce insulin can result in diabetes.

Answer: pancreas

3. Sultan Murad I met the forces of King Lazar on the Field of Blackbirds on June 15. Lazar's army consisted of a ragtag group of Christians composed of Bulgarians, Bosnians, Albanians, Poles, Hungarians, and Serbians. During the battle, a Serbian noble entered the Ottoman camp, pretending to be a deserter, and fatally wounded Murad with a poisoned dagger. Murad's forces rallied behind his son Bayazid I, and the Christians were totally defeated. FTP, identify this 1389 battle between Christians and Ottoman Turks that took place in a currently troubled region of the Balkans.

Answer: Battle of Kosovo

4. Toothpick and his crew have trouble with directions every time they attempt a drive-by. Dashiki, whose name is Swahili for "doggie-style," does her best to get out of the hood with her seven kids. Loc Dog has more guns than he knows what to do with, and keeps a Soviet nuclear warhead in the back of his mail truck. Ashtray, the main character, comes to live in the hood with his father, who turns out to be younger than him. All these characters can be found in, FTP, what Wayans Brothers comedy that parodies numerous ghetto life movies?

Answer: *Don't be a Menace to South Central while Drinking your Juice in the Hood*

5. Lu Xing, the god of salaries and employees, is a deified official who served the founder of the Han Dynasty and is often portrayed mounted on a deer. Fu Xing, the god of happiness, is a deified official of the 6th century and is often shown with his symbol, the bat. Shou Xing, the most recognizable of the trio, is the god of longevity, and is depicted as a bearded old man with a large bald head, accompanied by a stork and a tortoise. FTP, identify the collective name for these gods, three beneficent star deities of the Chinese religion.

Answer: Fushoulu

6. It starts with a brief overview of events from 753 B.C.E. to the Battle of Actium, and then describes in detail the rise of Augustus as emperor. It implies that Lavinia hastened the death of Augustus, and continues to describe the reign of Tiberius. Sejanus, captain of the Praetorian Guard, is the villain of this episode. Books XI through XVI are about Claudius and Nero, but abruptly end after Nero accused the Christians of starting the great fire of Rome. FTP, identify this unfinished history of the Roman Empire compiled by the Roman writer Tacitus.

Answer: The Annals or Annales

7. It incorporates the existence of magnetic monopoles, and can even be used to predict that there may be only one magnetic monopole in the observable universe. This theory holds that an event that lasted only 10^{-32} seconds explains why the density of the universe is so close to the limit that determines whether it is open or closed. Some of the major proponents of this theory are cosmologists Paul Steinhardt, Andreas Albrecht, and its founder, MIT physicist Alan Guth. FTP, identify this cosmological theory that states the universe underwent a period of rapid expansion just after the Big Bang.

Answer: inflationary theory or inflation

8. His duties as a brigadier general prevented him from signing the Declaration of Independence. As an antifederalist, he was a strong advocate of state sovereignty and unsuccessfully opposed ratification of the Constitution. He was elected the first governor of New York in 1777 and held the post until 1795, and again from 1801 to 1804, when he garnered a much more prestigious position. He has the honor of being the first vice-president to die in office in 1812. FTP, identify this twice elected vice-president of the U.S. who served under both Thomas Jefferson and James Madison.

Answer: George Clinton

9. He wrote his doctoral thesis on the calculus of variations and his first work was *The Philosophy of Arithmetic* in 1891, in which he argued that the truths of mathematics have validity regardless of the way people come to discover and believe in them. He influenced the philosophy of Heidegger, a colleague of his at the University of Freiburg, and Jean-Paul Sartre, who employed his philosophy in existentialism. He published his most famous work, *Ideas: A General Introduction to Pure Phenomenology*, in 1931. FTP, identify this German philosopher, the founder of the school of phenomenology.

Answer: Edmund Husserl

10. Excavation of this site began in 1931 and was supervised by James Henry Breasted. Its ruins are located at Takht-I Jamshid. The palace and audience hall, or Apadana, contain sculptured reliefs depicting Achaemenid court ceremonies. Plundered and burned by Alexander the Great in 330 B.C.E., it was eventually abandoned. FTP, identify this ancient city located in present-day Iran, first used as the capital of the Persian Empire by Darius I.

Answer: Persepolis

11. Joel Spingarn first used the term in an address to Columbia University in 1910. This literary movement was united in its emphasis on dealing with text directly, insisting that a work of art be considered as an autonomous whole without regard to biographical, cultural, or social speculations. Closely associated with the Fugitives and Vanderbilt, John Crowe Ransom used the name of this movement for the title of a book. FTP, identify this literary movement, the most famous proponent of which is Robert Penn Warren.

Answer: New Criticism or New Critics (prompt on Fugitives before it appears in question)

12. In addition to the normal symptoms, one-third of patients also suffer from hepatitis, and a few even suffer from endocarditis. More typical symptoms for this disease include a sudden onset of fever, malaise, headache, chest pains, and loss of appetite, though muscle weakness is the primary disability. Caused by a rickettsia bacterium known as *Coxiella burnetii*, this disease can be treated with antibiotics and rarely lasts over two weeks. FTP, identify this tick-borne infectious disease whose one-letter name reflects that it was once called Query fever.

Answer: Q fever

13. The Lower Palatinate was restored to Charles Louis, eldest son of the elector of the Palatinate Frederick V, and an eighth electorate was created in his favor. Bremen and Verden were ceded to Sweden, and both Sweden and France obtained the right to vote in the diet of the Holy Roman Empire. The de facto independence of Switzerland and the United Provinces of the Netherlands was recognized, and France was ceded the territory of Alsace-Lorraine once again. FTP, identify the treaty that granted all these provisions, signed on October 24, 1648, ending the Thirty Years' War.

Answer: Peace of Westphalia

14. It makes the distinction between the innate, often unconscious knowledge people have of their own language and the way in which they use the language in reality. The former, termed "competence," enables people to generate all possible grammatical sentences. The latter, termed "performance," is the transformation of this competence into everyday speech. It proposes that linguistic theory also should explain the mental processes that underlie the use of language. FTP, identify this seminal work in linguistics that proposes the theory of transformational-generative grammar, written in 1957 by Noam Chomsky.

Answer: Syntactic Structures

15. They are grouped in threes, each group ending with a canon, except for the last that is a quodlibet – a rousing piece that combines two popular types of songs. Baron von Kayserling – the Russian ambassador to the Dresden court – supposedly commissioned it in order to relive his insomnia, and it is named after his harpsichordist, who was to play these thirty variations. FTP, identify this work of thirty short pieces composed by Johann Sebastian Bach.

Answer: Goldberg Variations

16. Her works draw from her experiences as a young student and working mother in London, as well as from the lives of other African women, as can be seen in *The Bride Price* and *In the Ditch*. Her work is often seen as an antidote to the stereotyped and romanticized images of African womanhood, as in *The Moonlight Bride*. In 1994, she published her autobiography *Head Above Water* and the novel *Kehinde*, which deals with gender relations in London. FTP, identify this Nigerian novelist and publisher whose most famous work is *The Joys of Motherhood*.

Answer: Buchi Emecheta

17. His later research on salt deposits became very important to the German chemical industry. His relation of the optically active carbon compounds to asymmetrical and three-dimensional structures laid the basis for the science of stereochemistry. In 1874, he put forward a theory to explain the structure of organic compounds. His equation states that the osmotic pressure of a dilute solution is equal to the molar concentration of the solute times the absolute temperature times the universal gas constant. FTP, identify this Dutch physical chemist who received the Nobel Prize for Chemistry in 1901.

Answer: Jacobus Hendricus Van't Hoff

18. It proclaimed the right of all peoples to choose their own form of government and not to have boundary changes imposed on them. The right of all nations to have access to the Earth's natural resources was also recognized, as was economic cooperation among nations and improved living conditions for workers. It expressed the hope that after the defeat of the Nazis all countries would be able to feel secure from aggression, and the need for disarmament after the Allied victory. FTP, identify this 1941 agreement signed by Roosevelt and Churchill aboard a warship off the coast of Newfoundland.

Answer: Atlantic Charter

19. This philosophical concept has existed since the time of Plato, and figures prominently in Alexander Pope's *An Essay on Man*. Its three points are plenitude – the universe contains every possible form of life; continuity – there is a continuity of species in which each differs from others in only small degrees; and gradation – all creation from God to the lowest form of matter exists in a hierarchical and interconnected system, with man occupying the middle rung between animals and angels. FTP, identify this four-word philosophical doctrine refined in the 18th century by Gottfried Wilhelm Leibnitz.

Answer: great chain of being

20. He became interested in Keynes' explanations of why economies fluctuate in business cycles. He applied these ideas to his own life-cycle hypothesis of individual finance, which argued that individuals seek to maintain a stable level of consumption through their lives, despite fluctuations in income. He and American economist Merton Miller share a theorem that asserts investors focus on the future of profitability of a company rather than being overly concerned with the size and structure of its debt. FTP, identify this Italian economist who received the Nobel Memorial Prize in Economics in 1985.

Answer: Franco Modigliani

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Bonus Questions

1. Identify the director from works, 30-20-10.

- a) *Man on a Tightrope, A Face in the Crowd*
- b) *The Last Tycoon, Splendor in the Grass, East of Eden*
- c) *A Streetcar Named Desire, On the Waterfront*

Answer: Elia Kazan (accept Elia Kazanoglou)

2. Identify these legal terms from Latin FTPE. You will receive five points if you need the literal translation of the Latin phrase.

- a) (10 points) This term refers to a party, usually an attorney, who is allowed to advise the court in a legal case as a neutral person, not representing either side.

(5 points) The phrase means “friend of the court.”

Answer: amicus curiae

- b) (10 points) This is the legal term for doing the best possible under the circumstances. The term usually relates to evidence.

(5 points) The phrase means “of well-being.”

Answer: de bene esse

- c) (10 points) This term refers to the right to bring an action in law.

(5 points) The phrase means “a place to stand.”

Answer: locus standi

3. Identify the following concerning a certain novel and author FTPE.

- a) This novel concerns Eugene Gant in the town of Altamont, Catawba. He grows up, meets the eccentric people of his town, goes to college, discovers literature and ideas, and at last sets out alone on a mystic and romantic pilgrimage.

Answer: Look Homeward Angel: A Story of the Buried Life

- b) What American author penned *Look Homeward Angel*?

Answer: Thomas Wolfe

- c) Identify Thomas Wolfe’s sequel to *Look Homeward Angel*.

Answer: Of Time and the River

4. Write down the following list of immunoglobulin (Ig) antibodies (Note to moderator: read list slowly): M, G, E, A, D. Now, FFPE, and a five-point bonus for all correct, identify the antibody given a description.
- a) This antibody is found in saliva and mother's milk
Answer: A or IgA
- b) This is the predominant antibody in blood serum; it is made on the second exposure to an antigen.
Answer: G or IgG
- c) The role of this antibody is unknown.
Answer: D or IgD
- d) This antibody is the first antibody made by newborns and the first made during an infection.
Answer: M or IgM
- e) This antibody is associated with allergies.
Answer: E or IgE
5. Identify these famous putsches F15PE.
- a) On November 8, 1923, Adolf Hitler and 600 men marched on a public gathering in Munich and declared the formation of a new national government. The Bavarian military crushed this rebellion the next day, killing 16 of Hitler's followers.
Answer: Beer Hall Putsch
- b) This 1920 rebellion saw a private army of Communist Spartacists under Karl Liebknecht and Rosa Luxemburg attempt to overturn the Weimar government of Germany. This dangerous rightist military revolt was put down swiftly.
Answer: Kapp Putsch
6. Identify these psychologists from a description FTPE.
- a) His 1943 article "Individual and Mass Behavior in Extreme Situations" was a pioneer study of the effects of inordinate stress on personality and was based on his experiences in Nazi concentration camps. He committed suicide in 1990.
Answer: Bruno Bettelheim
- b) He was one of the first students of Freud and became his secretary in 1905. He applied Freudian techniques to the interpretation of myths in his work *Myth of the Birth of the Hero*. He ascribed the initial trauma of birth to the development of neuroses rather than to the Oedipus complex.
Answer: Otto Rank
- c) He is most famous for his development of the idea of the complex, as well as the personality types introvert and extrovert. Another of his buzzwords is "archetypes." Identify this psychologist who broke with Freud after publishing *Psychology of the Unconscious*.

Answer: Carl Gustav Jung

7. Expand the following business acronyms FFPE and a five-point bonus for all correct.

a) NASDAQ

Answer: National Association of Securities Dealers Automated Quotation

b) FDIC

Answer: Federal Deposit Insurance Corporation

c) LLC

Answer: Limited Liability Corporation

d) TESSA

Answer: Tax Exempt Special Savings Account

e) IMF

Answer: International Monetary Fund

8. Identify these characters from Lodovico Ariosto's *Orlando Furioso* FTPE.

a) This magician is capable of reintegrating his body when it is cut to pieces. Astolfo learns that his ability is rooted in a single hair on his head and decapitates this wizard and removes each hair until he dies.

Answer: Orillo

b) The story really centers on this character, who rescues the fair Angelica from a sea monster on the island of Ebuda.

Answer: Ruggiero

c) Astolfo takes his winged horse to Ethiopia, mounts Elijah's chariot, and travels to the Moon to recover the wits of Orlando. This saint is his guide through the journey.

Answer: Saint John

9. Identify the following terms related to meteorology FTSNOP.

a) (5 points) This is defined as any form of water, either solid or liquid, that falls from the atmosphere and reaches the ground. Examples include rain, snow, sleet, and hail.

Answer: precipitation

b) (15 points) Precipitation begins when ice crystals in clouds grow larger by this process, named after the Swedish meteorologist who proposed that raindrops begin as ice crystals.

Answer: Bergeron process

c) (10 points) An early system of identifying cloud types was proposed by this French botanist and zoologist in 1802, who is perhaps better known for his work in the development of evolution.

Answer: Jean Baptiste Lamarck

10. Identify the following concerning New Deal legislation FTPE.

- a) This act was passed in the summer of 1933 and set stringent rules for banks and provided insurance for depositors through the newly formed Federal Deposit Insurance Corporation.

Answer: Glass-Steagall Act

- b) This act, also passed in 1933, provided for two major recovery programs: a vastly expanded public works effort carried out by the Public Works Administration, and a complex program to regulate American business and ensure fair competition.

Answer: National Industrial Recovery Act or NIRA

- c) This was the last major domestic program launched by the Roosevelt administration. Passed in 1938, it mandated maximum hours and minimum wages for most categories of workers.

Answer: Fair Labor Standards Act

11. Identify the following concerning the Baha'i faith FTPE.

- a) "Baha'i" is Persian for what word?

Answer: glory

- b) The headquarters of the faith lie on what mountain located in Haifa, Israel?

Answer: Mount Carmel

- c) What 19th century religious leader founded the religion of Baha'i?

Answer: Baha'u'llah or Mirza Husayn Ali of Nur (prompt on Ali)

12. Given a year and a team, identify the winner of the Heisman Trophy FFPE.

- a) University of Southern California, 1981

Answer: Marcus Allen

- b) University of Texas, 1977

Answer: Earl Campbell

- c) Oklahoma State University, 1988

Answer: Barry Sanders

- d) Ohio State University, 1974 and 1975

Answer: Archie Griffin

- e) Auburn University, 1985

Answer: Bo Jackson

f) University of Pittsburgh, 1976

Answer: Tony Dorsett

13. Given a description, identify these poets of 20th century Ireland FTPE.

a) One of the leaders of the Easter Rebellion, he edited the Gaelic League newspaper *The Sword of Light* and encouraged the development of a modern literature in Irish. His *Collected Works* were published in 1917, one year after he was executed by a British firing squad.

Answer: Patrick Pearse

b) Considered the inheritor of Yeats' legacy, this Irish poet is famous for his rendering into English of Sophocles' *Philoctetes* and his newest collection of poems *The Spirit Level*. He is the recipient of the 1995 Nobel Prize in Literature.

Answer: Seamus Heaney

c) He reacted against the Irish Renaissance by writing grim, realistic portrayals of the Irish, as depicted in his 1942 poem *The Great Hunger*. *The Green Fool* and *Tarry Flynn* are two of his autobiographical novels.

Answer: Patrick Kavanagh

14. Given a description, identify the mathematical equation FTPE.

a) This function of economics states that the marginal productivity of labor is proportional to the amount of production per unit of labor.

Answer: Cobb-Douglas function

b) This theorem states that the line integral around the boundary curve of a surface S of the tangential component of the vector F is equal to the surface integral of the normal component of the curl of vector F.

Answer: Stokes' Theorem

c) This equation states that the second partial differentiation of u with respect to x plus the second partial differentiation of u with respect to y equals zero. It is named after a French mathematician who has a namesake transform.

Answer: Laplace's equation

15. Given a description, identify the following concerning a certain region FTPE.

a) Identify the battle that took place in 378 C.E. between the Romans and the Visigoths. The Visigoths essentially wiped out the Roman forces at this costliest recorded battle of ancient times.

Answer: Battle of Adrianople

b) FTPE, identify the Roman emperor of the East who perished at the Battle of Adrianople and his successor.

Answer: Valens and Theodosius I (accept Theodosius the Great)

- c) The Treaty of Adrianople was signed in 1829 by two powers, ending a long-standing conflict. FFPE, identify those two political entities.

Answer: Russia and Ottoman Empire (do not accept Turkey for Ottoman Empire)

16. Given a description, identify the monastic order FTPE.

- a) This monastic order requires the provision of adequate food, clothing, and shelter. They are called the “black monks” due to the color of their habits, a tunic and scapular, over which is worn a long full gown or cowl, with a hood.

Answer: Benedictines

- b) This order was founded by St. Berthold in the 12th century. They are severely ascetic, prescribing poverty, abstinence from meat, and solitude. In England, they are known as the White Friars. They are divided into the Calced and Discalced groups.

Answer: Carmelites

- c) They began forming communities throughout Europe in the 12th century called Canons. They were intensely suppressed after 1800. Approximately 100 organizations remain in Europe and various parts of the U.S.

Answer: Augustinians

17. Identify these female composers given a description F15PE.

- a) She was greatly influenced by her teacher Ravel and the simplicity of Satie. Her association with such giants as Poulenc and Milhaud left her relatively unnoticed, but she became the only female member of Les Six.

Answer: Germaine Tailleferre

- b) This Benedictine nun of the 12th century had a series of 26 visions that she compiled into a book called *Scivias*. She set these poems to music and entitled the piece *Symphonia harmoniae, caelestium revalationum*.

Answer: Hildegarde of Bingen

18. Identify the Shakespeare play given a list of characters FTPE.

- a) Cerimon, Marina, Thaisa, Lysimachus

Answer: Pericles, Prince of Tyre

- b) Edmund Mortimer, Owen Glendower, Prince Hal, Hotspur

Answer: Henry IV, Part I (prompt on Henry IV)

- c) Imogen, Posthumus Leonatus, Iachimo, Pisanio

Answer: Cymbeline

19. Identify the following concerning phase diagrams FTSNOP.

- a) (5 points) Give the term that indicates the coordinate at which all three phases are at equal temperature and pressure.

Answer: triple point

- b) (15 points) If reading a phase diagram from left to right, identify the order in which you would read the three phases FFPE.

Answer: solid, liquid, gas (must be in order)

- c) (10 points) Give the term that identifies the substance found above the critical point on the gas-liquid phase line.

Answer: supercritical fluid

20. Identify these United States political parties from a description FTPE.

- a) This party was formed in 1839 by a group that broke away from the American Anti-Slavery Society. In 1848, it merged with the antislavery Democrats and Whigs to form the Free-Soil Party.

Answer: Liberty Party

- b) FTPE, identify the two groups that split the Republican Party at the nominating convention of 1880. One group, believers in party loyalty above all else, was led by Roscoe Conkling. The other, believers in minor political reforms, was led by James G. Blaine.

Answer: Stalwarts and Half-Breeds

21. Given a culture or religion, identify the god or goddess of the sun sphere in their mythology FTPE.

- a) Hinduism

Answer: Surya (accept Aditya)

- b) Aztec

Answer: Huitzilpochtli (accept Tezcatlipoca)

- c) Greek

Answer: Helios