

2004 Truman State
Brainal Leakage
Packet 10

Tossups

1. (Maddog_currev) **Employing 36,000 people in 29 countries, this food giant has annual sales of over 9.2 billion dollars. The company's slogan is "Nutre la vita," meaning nurture the life. (*)** However, in late December, it was discovered that company executives were more interested in nurturing their pocketbooks. Now, the founder and former CEO is under arrest and at least 20 other executives are under investigation in what appears to be Europe's Enron. FTP, name this Italian dairy company for which estimates report may be missing as much as 12 billion dollars as a result of 15 years of false accounting.

Answer: _Parmalat_

2. (piguy_chem) **This compound, with 5,700 repeating strings of $\text{CH}_2\text{CHC}_6\text{H}_5$, has no polar groups and thus dissolves well in organic solvents such as acetone. (*)** This polymer is produced by a process called "expansion molding," where beads of this substance containing 4-7% of a low-boiling liquid are placed in a mold and heated with steam or hot air, vaporizing the liquid so that the substance fits the shape of the mold. FTP, name this compound, widely used for home insulation and for food and beverage containers.

Answer: _Styrofoam_ (accept polystyrene)

3. (greg_ceurhist) **In 1937, he was sentenced to ten years in prison for Communist party activity, but he was among the first to join the Socialist Unity Party of Germany when Walter Ulbricht founded the party in 1946. (*)** He rose through the ranks of the government and in 1961 directed the construction of Berlin's so-called "anti-fascists protective barrier." FTP, name this leader of East Germany who replaced Walter Ulbricht and was succeeded briefly by Egon Krenz.

Answer: Erich _Honecker_

4. (Maddog_AmHist) **The goal of this meeting, whose attendees included William Johnson and Peter Warraxall, was to prevent war with the Iroquois League, which was composed of six Iroquois nations. (*)** It failed in this respect, as the Iroquois were angered by an extortionist land purchase by the namesake colony and allied themselves with the French in the impending war. FTP, name this 1754 meeting, perhaps most notable for its acceptance of Benjamin Franklin's Plan of Union.

Answer: _Albany Congress_

5. (kyle_misclit) **Born in Ascra, Boeotia, he settled in Naupactus after his father's death. All that is known of the Greek poet, outside of his poetry, is that he lived mostly as a farmer and tended to sheep. His first poem, the "Theogony" (*)** systemizes the hierarchy and ancestry of the Greek Gods. He also composed the earliest form of didactic poetry, *Works and Days*, emphasizing his personal tone and high moral beliefs. FTP, also known for his many allegories and fables, name this poet that is said to have lived at about the same time as Homer.

Answer: _Hesiod_

6. (Maddog_sociol) **Her work with the Zuni Pueblo Indians established her theory that "culture is personality writ large." A recognized authority on the study of Native American ethnic history, (*)** she also did case studies of the Serrano, Cochiti, and Pima tribes. Her work *Patterns of Culture*, based on her observations of Native Americans, became a classic of American sociology. FTP, name this cultural anthropologist, who, although renowned for her work with Native Americans, is probably best known for her study of Japanese culture that she expounded in *The Chrysanthemum and the Sword*.

Answer: Ruth _Benedict_

7. (maddog_misclit) **After an earthquake levels his city, he orders several people murdered in order to prevent further earthquakes. (*)** He then orders the execution of an innocent philosopher whose beliefs seem to contradict orthodox Christianity. He also participates in adultery and numerous sexual liaisons, before Candide murders him. FTP, name this man, Voltaire's portrait of all that is wrong with the Catholic Church.

Answer: _Grand Inquisitor_

8. (piguy_bio) In a season five episode of *The X-Files*, a lethal genetically modified strain of this bacterium was used to literally eat through the flesh of its victims. (*) One actual species of this bacterium lives in mucous membranes, while another causes acute pharyngitis, impetigo, rheumatic fever, and scarlet fever. FTP, name this genus of bacteria that looks like chains of nearly spherical bacteria cells.

Answer: Streptococcus (prompt on "Strep")

9. (tallpaul_bhlist) Although it formed governments in 1924 and 1929 under Ramsay MacDonald, it was generally forced to rely on the more influential Liberal Party. (*) In 1945, under the leadership of Clement Attlee, it won control of Parliament. Some of the famous manifestos of this party include "Let Us Face the Future," and "New Britain." FTP, identify this party that gained Parliamentary control in 1997 under Tony Blair.

Answer: Labour Party

10. (jgaunt_alit) The beginning of this book deals with the mystery of the death of Jacques Sarnierre, curator of the Louvre. (*) His granddaughter, Sophie, enlists the help of a religious cryptographer to untangle the web of lies and deceit they are presented with. In learning that her grandfather was the head of the Priory of Sion, the two race to discover the true resting place of the secret the society has kept. FTP, name this work of Dan Brown, in which Sophie searches for the Holy Grail.

Answer: The da Vinci Code

11. (kerrith_blit) His mother received a letter from his commanding officer that he had died from wounds (*) received in battle. This author was, in fact, nearly fatally wounded in the chest at the Battle of the Somme. However, he survived, later writing one of the most realistic accounts of World War I. He enjoyed a long literary career, and died in 1985 on the island of Majorca. FTP, name this author, whose autobiographical story of World War I is titled *Goodbye to All That*.

Answer: Robert Graves

12. (jlive_phys) For alpha equals negative one, its f of epsilon increases sharply as epsilon decreases below 2 k T, and its value is always greater than the Maxwell-Boltzmann one. (*) Unlike Fermi-Dirac functions, this one applies to systems of indistinguishable particles that do not obey the Pauli Exclusion Principle. FTP, identify this distribution function, named in part for the discoverer of relativity, which applies to bosons.

Answer: Bose-Einstein distribution function

13. (jgaunt_mischist) Utilizing Euclid's *The Elements*, this astronomer tried to correct the work done in Copernicus' *De Revolutionibus Orbium Caelestium* (*) by eliminating epicycles of the planets and trying to fit the orbits to the regular Platonic solids. His problem in explaining the orbit of Mars led to the discovery for what he is mainly known. FTP, name this author of *Astronomia Nova* who postulated that the orbits of the planets are elliptical and that they traverse equal areas in their orbits in equal time periods.

Answer: Johannes Kepler

14. (chalsey_myth) Heimdall stands guard here, ready to announce to the gods the enemy's approach. (*) He waits at this location, with his trumpet ready to announce the ultimate attack of the giants on the gods. This location is strategic because it is the only bridge that links the abode of the Norse gods to the land of men and its massive size spans the sky. FTP, name this bridge of Norse mythology which is formed by the rainbow.

Answer: Bifrost Bridge (prompt on rainbow bridge)

15. (piguy_bio) Along with Max Delbrück and Salvador Luria, he was a Nobel Prize winner for Medicine and Physiology in 1969. (*) His 1952 study along with Martha Chase focused on the reproduction of bacteriophages. His experiments alongside Chase demonstrated that bacteriophages inject their DNA into bacterial cells, leaving most of their protein on the outside. His study served as an important indicator as to the role of DNA as the hereditary material. FTP, name this scientist who, judging by his name, must really like chocolate.

Answer: Alfred Hershey

16. (piguy_sports) Infamous games in sports history are often referred to with a nickname that speaks of the infamy that took place in that game. The 1967 NFL Championship certainly qualifies. This game featured (*) the Packers and Cowboys and carries a dubious nickname because of the temperature at Lambeau Field that day, -13°F, and

the frozen underground heating system that, together, led to an extremely slick playing surface. FTP, what is this infamous championship game known as?

Answer: The _Ice Bowl_

17. (Maddog_asianlit) **This work contains hundreds of characters, most of which are young girls. In China, the title of this novel represents a prosperous family. Focusing on two branches of the Jia family, (*) it explores the family's gradual decline as each generation accomplishes less than the one before it.** FTP, name this 1791 novel, believed to be co-authored by Cao Xueqin and Gao E., the most famous novel of China.

Answer: _*Hong Lou Meng*_ (accept *Dream of the Red Chamber*)

18. (Maddog_AmHist) **Formed in 1643 as the first experiment in federation in America, the chief goal of this league was to provide for mutual defense and to settle boundary disputes between its member (*) colonies.** Member colonies, which included Massachusetts Bay, Plymouth, Connecticut, and New Haven, were responsible for their own internal affairs. The major shortfall of this league was the inability of its commissioners to solve intercolonial disputes. FTP, name this federation whose clashing member states were still able to defeat the Native Americans of Southern New England in King Philip's War.

Answer: _New England Confederation_

19. (jlive_philo) **Saint Augustine, after picking on the Manicheans, somehow found time to pick on this doctrine named for a Welsh cleric, which he had declared heretical in AD 416. (*)** It denies both the doctrine of original sin and the doctrine that baptism is necessary to be forgiven for it. FTP, identify this Catholic heresy holding that man takes his first steps toward salvation without the need for divine grace.

Answer: _Pelagianism_

20. (Maddog_Art) **This artist was greatly influenced by the Caravaggesque style popular in Seville, which can be seen in early works such as *Crucifixion*. (*)** He is often associated with the painting of saints, including a popular series portraying events from the life of Saint Peter Nolasco, founder of the Mercedarian order. FTP, name this painter of St. Serapion, perhaps best known for his *The Apotheosis of St. Thomas Aquinas*.

Answer: Francisco de _Zurbaran_

21. (Maddog_geog) **The Garagum desert, Turkish for black sands, covers 140,000 square miles of this country. The Akdzhakaya Depression is its lowest point, at 360 feet below sea level. (*)** This country has very few domestic sources of fresh water, the most important being the Amu Darya and Murgap rivers. The Caspian Sea forms its entire eastern border, while Kazakhstan and Uzbekistan are neighbors to the north. FTP, name this second largest of the Central Asian Republics that has its capital at Ashgabat.

Answer: _Turkmenistan_

22. (kerrith_music) **The characters include a dwarf, a bookie, a boxer, and a lady with paper hair (*)** all gathered at the Nothing-Doing Bar, a speakeasy. When the police officer enters, the patrons hide their drinks and a sign saying, "Only Milk Served Here," is displayed. The drinkers make their escape when a ceiling fan accidentally decapitates the officer. FTP, name this ballet by Darius Milhaud, based on a book by Jean Cocteau.

Answer: _*Le Boeuf sur la toit*_ (*The Bull on the Roof*)

23. (laura_psych) **This man was one of the first laboratory psychologists in America, though he was skeptical of the ultimate value of laboratories for studying the human mind. (*)** Claimed by both American philosophers and psychologists as one of the pioneers of their disciplines, this man's work explored, among other things, the psychological aspects of rationality and under what conditions belief without evidence was justifiable. FTP, name this prominent 19th century thinker, considered the founder of pragmatism in philosophy and functionalism in psychology, whose most famous works include *Principles of Psychology*, *The Will to Believe*, and *The Varieties of Religious Experience*.

Answer: William _James_

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1. (chalsey_religion) Identify the following authors from works relating to Christian literature FTPE.

10—He wrote the *History of the Reformation in Scotland*.

Answer: John_Knox_

10—Seen as a profound analysis of the outfalls that confront a twentieth century Christian, his *The Screwtape Letters* is outlined by the correspondence of a devil and his nephew Wormwood.

Answer: (Clive Staples) C.S._Lewis_

10—His work, *Pensées (Thoughts)*, is actually comprised of fragmentary notes and aphorisms that were to be compiled later while at Port Royal.

Answer: Blaise_Pascal_

2. (kyle_glit) For fifteen points each, given a year, identify the following German authors who won the Nobel Prize for Literature. If you need one of their titles, you will only receive five points.

15—1999.

5—*The Tin Drum*.

Answer: Günter_Grass_

15—1929

5—*Buddenbrooks*.

Answer: Thomas_Mann_

3. (kyle_music) FTPE, name the Italian composer given a description.

10—This composer entered the Milan Conservatory at age 9 and wrote the opera *La Gioconda* and a hymn in memory of Giuseppe Garibaldi.

Answer: Amilcare_Ponchielli_

10—Taught by Ponchielli, he wrote the operas *Madame Butterfly* and *La Boheme*.

Answer: Giacomo_Puccini_

10—You've probably been waiting to say this legendary opera writer, so shout out the name of this composer of *Rigoletto*.

Answer: Giuseppe_Verdi_

4. (piguy_bio) FTPE, name the following enzymes involved in DNA replication given their descriptions.

10—This enzyme travels ahead of the helicase enzyme and alleviates positive supercoiling.

Answer: _topoisomerase_ (accept gyrase)

10—This enzyme links ribonucleotides to synthesize a strand of RNA that primes the process of DNA replication.

Answer: _primase_

10—This group of enzymes is responsible for covalently attaching nucleotides together to make new daughter strands.

Answer: DNA _polymerase(s)_

5. (jlive_math) Answer these questions related to partial differential equations FTPE.

10—A set of functions f sub n of y is said to be this if any other function f of y can be expressed as a linear combination of elements of the set.

Answer: _complete_

10—If the integral of the product of any two different members of the set of functions is zero, then the set is called this.

Answer: _orthogonal_

10—In this method of solving partial differential equations, one looks for solutions that are products of functions, each of which depends on only one of the available coordinates.

Answer: _separation of variables_

6. (tim_cs) Given a description, name the individual from the world of computers, FTPE.

10—This man is widely hailed as the father of supercomputing. In 1957, he helped found Computer Data Corp. In 1976, this man was chiefly responsible for the development and production of computers that could perform up to 240 million operations per second. By 1988, the speed had increased to 2.6 billion operations. Name this man, who founded a research company bearing his name in 1972.

Answer: Seymour _Cray_

10—This man co-invented TCP/IP protocol. He was the vice president of the Corporation for National Research Initiatives and MCI Digital Information Services and helped engineer the first electronic internet mail service. His current focus is on his site, www.shutterfly.com, an online photo processing and delivery service.

Answer: Vint _Cerf_

10—This man is largely credited with creating the Altair 8800, the world's first personal computer. He received electronics training in the Air Force and founded Micro Instrumentation Telemetry Systems. At age 42, he left that company to pursue his dream of becoming a physician.

Answer: Ed _Roberts_

7. (greg_ceurhist) FTPE, name the three nations of the Triple Alliance of 1882.

Answer: _Germany_ (also accept German Empire), _Italy_, and _Austria-Hungary_ (also accept Austro-Hungarian Empire)

8. (Maddog_asianhist) 30-20-10—Name the city.

30—The first records of this city, dating from the 14th century, are under the name Temasek, or "Sea Town." Its modern name comes from the Sanskrit for "Lion City."

20—It became an official British possession after the Anglo-Dutch Treaty of 1824 and two years later was incorporated as one of the Strait Settlements along with Malacca and Penang.

10—It became self governing in 1959 but from 1963 to 1965 was merged with Malaysia. In 1965, it became a republic with Yusof bin Ishak as first president.

Answer: _Singapore_

9. (jgaunt_mischist) Given a global historical event, name the Australian Prime Minister who served for the majority of the given event, FTPE.

10—World War I.

Answer: William Morris _Hughes_

10—World War II.

Answer: John Joseph Ambrose _Curtin_

10—2000 Summer Olympics held in Sydney.

Answer: John Winston _Howard_

10. (laura_psych) Answer the following psychology questions FTPE.

10—Give the term for the treatment of psychological disorders or maladjustments by a psychological technique. Such treatment does not include physiological interventions, such as drug therapy or electroconvulsive therapy, although it may be used in combination with such methods.

Answer: _psychotherapy_

10—This type of psychotherapy uses basic learning techniques to modify maladaptive patterns of action by substituting new responses to given stimuli for undesirable ones.

Answer: _behavior_ therapy (accept behavioral therapy or behavior modification)

10—This type of psychotherapy focuses on an individual's social relationships and how to improve social support. Present conflicts that create internal tension and blocked energy are the focus of the therapy.

Answer: _Gestalt_ therapy

11. (piguy_chem) 30-20-10-5-1—name the chemical.

30—This substance is contained within lighthouses' Drummond lights, which were incredibly bright when a ball of this chemical was heated by an alcohol flame in a stream of oxygen gas.

20—Lights using this chemical were used to illuminate targets in the battle of Charleston, South Carolina during the Civil War.

10—Billions of kilograms of this chemical are produced annually when limestone is heated strongly.

5—This substance, formula CaO, led to the coining of the phrase "in the limelight."

1—This is also the name of an oblong green fruit about the size of a lemon.

Answer: _lime_ (accept calcium (mono)oxide or quicklime any time; accept CaO for early answers)

12. (Maddog_AmHist) It was one of the most divisive phenomena in America's history. FTPE, answer these questions about the Anti-Vietnam War movement.

10—This Arkansas senator was one of the leading political critics of the war, and held hearings questioning why the United States was fighting the war in Vietnam. He is perhaps better known as the namesake of a bill that provided funds for the exchange of students, teachers, and scholars between the United States and other countries of the world.

Answer: James William _Fulbright_

10—This student organization created by University of Michigan students in 1960 was one of the leading agitators against the war. Their goals were explained in the Port Huron Statement. An anti-war protest they organized at Columbia University resulted in the takeover of several university buildings.

Answer: _Students for a Democratic Society_ (accept SDS)

10—While the National Guard killings at Kent State University are better known, law enforcement violence against anti-war protesters resulted in three deaths at this Mississippi university.

Answer: _Jackson State_ University

13. (jgaunt_mischist) For the stated number of points, answer the following about South Africa.

5—Name the policy that kept the minority Afrikaan regime in power in South Africa.

Answer: _apartheid_

10—Give the year in which all laws relating to apartheid were abolished. Note that this is NOT the same year in which South Africa's first non-racial elections were held.

Answer: _1991_

15—For five points for one or fifteen for both, name the two men who won the Nobel Peace Prize in 1993 for their efforts in abolishing apartheid.

Answer: Nelson Rolihlahla _Mandela_; Frederik Willem _de Klerk_

14. (kyle_blit) FTPE from the given clues, name the Bennet sister, all featured in Jane Austen's *Pride and Prejudice*.

10—The second oldest of the five sisters, she must overcome her dislike for Mr. Darcy.

Answer: _Elizabeth_

10—This oldest sister bonds with her soon-to-be husband more smoothly than Elizabeth and Darcy.

Answer: _Jane_

10—The youngest Bennet sister wastes no time running off with the militiaman Wickham.

Answer: _Lydia_

15. (tallpaul_bhish) FTPE, name the following modern British prime ministers.

10—This man did not actually hold the title of prime minister, but he was the first to live and work in number ten Downing street. He resigned amid party infighting in 1717.

Answer: Robert _Walpole_

10—This Liberal prime minister was 27 when first elected to Parliament. He replaced Asquith as prime minister in 1916 during World War I and represented Britain at the Paris Peace Conference.

Answer: David Lloyd _George_

10—This Prime minister resigned in 1940 after the Nazi invasion of Norway and the Low Countries in disgrace over his appeasement policy at Munich and declaration of "peace in our time."

Answer: Neville _Chamberlain_

16. (jgaunt_alit) Given a figure from the Scopes "Monkey Trial," identify its counterpart in the play and subsequent film based on the trial, *Inherit the Wind*, FTPE.

10—John T. Scopes.

Answer: Bertram _Cates_

10—William Jennings Bryant.

Answer: Matthew Harrison _Brady_

10—Clarence Darrow.

Answer: Henry _Drummond_

17. (piguy_chem) All organic chemistry students hate dealing with the stereochemistry terms as they relate to isomers, but now you'll have to if you want any points. Answer these questions, FTPE.

10—These isomers differ in the order in which atoms are bonded together.

Answer: _constitutional_ isomers (accept structural isomers)

10—Isomers of this nature are nonsuperimposable mirror-images.

Answer: _enantiomer(s)_

10—These isomers are stereoisomers that are not mirror images of each other.

Answer: _diastereomer(s)_

18. (kyle_misclit) For fifteen points each, identify the author's nationality by their given works. You will receive five points if you need the author.

15—*Forefather's Eve*, *Konrad Wallenrod*.

5—Adam Mickiewicz.

Answer: _Poland_ (accept Polish)

15—*Children of Wrath: A Hired Man's Saga*, *Rugens sange*

5—Jeppe Aakjaer.

Answer: _Denmark_ (accept Danish)

19. (jgaunt_alit) From the given lines, identify the Emily Dickinson poem, FTPE.

10—"The simple news that nature told / with tender majesty / her message is committed / to hands I cannot see;"

Answer: _"This is my letter to the world"_

10—"Futile the winds / to a heart in port / done with the compass / done with the chart."

Answer: "Wild nights!"

10—"But where it fell / the saved will tell / on patriotic day / some epauletted brother / gave his breath away."

Answer: _"There is a word"_

20. (jlive_phys) Answer these related questions for the stated number of points.

5—This cosmological theory suggests that all the matter and energy in the universe arose from the explosion of an enormously dense, hot center at a finite time in the past.

Answer: _Big Bang_ theory

10—Gravitational and Doppler are the two primary kinds. Observed in the spectral lines of certain galaxies, this change in frequency indicates that the universe is expanding.

Answer: _redshift_

15—According to the big-bang model, the universe is not infinite and not uniform through time. Furthermore, some distant galaxies display such extreme redshift that they cease to be visible. Thus, the night sky is not uniformly as bright as the sun, as this paradox suggests it should be.

Answer: _Olber's_ paradox

21. (piguy_sports) For 15 points each, name these schools with dubious losing football streak records.

15—From November 4, 1989 to September 26, 1998, this member of the Southwestern Athletic Conference could not pull out a victory, losing a NCAA football record 80 straight games. Name this Division I-AA school.

Answer: _Prairie View A&M_

15—From September 22, 1979 to September 18, 1982, this Big Ten school could not win a football game, setting a record for Division I-A football losing streaks with 34 straight defeats.

Answer: _Northwestern_

22. (brian_polisci) FTPE, given the name of the democrat and the year, name the republican who beat him or her in the 2000 gubernatorial elections. You will be awarded five points if you need the name of the state as well.

10—Attorney General Heidi Heitkamp.

5—North Dakota.

Answer: John _Hoeven_

10—Representative Bill Orton.

5—Utah.

Answer: Mike _Leavitt_

10—Auditor Mark O’Keefe.

5—Montana.

Answer: Judy _Martz_

23. (nick_econ) Given a position and financial organization, name the current position holder for the stated number of points.

5—Secretary of the United States Treasury.

Answer: John _Snow_

10—Chairman of the SEC.

Answer: Harvey _Pitt_

15—Chief of German labor and economics ministry.

Answer: Wolfgang _Clement_