

2004 Truman State
Brainal Leakage
Packet 9

Tossups

1. (kyle_misclit) **The title heroine of this Scandinavian children's book could easily relate to its author. The author, pregnant at age 18, left the family to take an office job in Stockholm. Published in 1945, (*) this novel deals with a nine-year-old orphan who lives alone, but with a horse and monkey. FTP, name this best-known story about an outrageous redhead who considered herself the strongest girl on Earth, written by Astrid Lindgren?**

Answer: _Pippi Longstocking_ (accept *Pippi Långstrump*)

2. (Maddog_mischist) **This group was first formed by six young army officers in 1816 as the Union of Salvation. By 1825, Colonel Pavel Ivanovich Pestel emerged as the (*) society's leader, and they planned to launch their ultimate plans in late summer of 1826. However, the death of Tsar Alexander I changed their plans. FTP, name this group of Russian army officers who marched on St. Petersburg with 3,000 troops, named for the month in which their mutiny took place.**

Answer: The _Decembrists_

3. (jlive_phys) **A cyclic device that would continuously abstract heat from a single reservoir and convert it completely into mechanical work is one of the second kind. (*) One of the first kind is a cyclic device that puts out more energy in the form of work than is absorbed in the form of heat in some number of complete cycles. FTP, identify this physically impossible device.**

Answer: _perpetual motion machine_

4. (brian_polisci) **He has a sterling resume, one almost ideal for the presidency, but apparently a lack of political savvy to achieve the Oval Office. This democrat served two terms as governor of Florida (*) before his 1986 election to the Senate, and his name was frequently brought up as a potential running mate for Al Gore in 2000. In the summer of 2003, he threw his hat in the ring for the 2004 democratic presidential nomination, but his campaign never got off the ground. FTP, name this senior Florida senator, known for his voluminous daily journals.**

Answer: Bob _Graham_

5. (kerrith_music) **This piece took four years to write; it was twenty-five more years before its first notable public performance. In it, one can find old hymn tunes, military marches, (*) ragtime and Beethoven, mixed together with unexpected dissonances and thickly-layered rhythms. At one point, the pianist presses the keys with a 14 3/4" board, and there are brief passages for flute and viola, passages rarely found in other piano sonatas. FTP, name this Charles Ives piece whose four movements are titled after New England transcendentalist writers.**

Answer: _Concord Sonata_ (accept *Second Piano Sonata*)

6. (jlive_math) **One, three, six, ten, fifteen, and twenty-one are the first six of them. (*) Recognizing the formula, the quantity n divided by two times the quantity n plus one, that governs them allowed a young Gauss to avoid a tedious elementary school exercise. FTP, identify this type of number so called because of its relationship with a certain geometric pattern.**

Answer: _triangular_ numbers

7. (kyle_alit) **Impatient about America's reluctance to join World War I, this man became a naturalized British citizen so that he could be involved with war-relief work. He permanently settled in Britain in 1876 (*) but actively remained involved with his native America. In 1907, he was asked by Charles Scribner to write prefaces for Scribner's 24-volume collection of novels and other works. FTP, name this author, born in New York City, that is best known for "The Art of Fiction," "The Turn of the Screw," and "Daisy Miller?"**

Answer: Henry _James_

8. (Maddog_Art) **In the top right corner of this painting, a crowd is gathering around the site of crucifixion, evidence of the artist's cynical view of crowd psychology. (*) At first glance, the focus of the painting seems to be the kneeling figures in the foreground, Saint John and the Three Marys. However, a close examination of the mass of people**

at the painting's center reveals the true centerpiece. FTP, name this painting by Pieter Bruegel the Elder, depicting Christ's travel to Golgotha.

Answer: Carrying of the Cross

9. (chalsey_myth) **When Zoroaster originally set forth his teachings in the *Gathas*, the poles of dualism did not include this entity.** (*) Rather, he transcended a different dualistic formula characterized by the opposition of *asha*, truth, and *druj*, falsehood. A representation of this opposition was represented by two spirits, his twin sons Spenta Mainyu and Angra Mainyu. FTP, name this entity who, with Angra Mainyu, made up the two poles of pre-Islamic dualism in the Zoroastrian tradition and is otherwise known as the Zoroastrian angel of light.

Answer: Ahura Mazda (accept Ohrmazd)

10. (kyle_asianlit) **In Hollywood, this text has come up often. One young pupil, Stewart Gilligan Griffin, was forced to watch the Teletubbies after his mom caught him reading this Chinese text.** (*) In the movie *Wall Street*, Michael Douglas' character touts the book as an essential text for corporate raiders. In an episode of "Star Trek: The Next Generation," Commander Riker was able to regain control of the *Enterprise* by quoting verses from it to the Ferengi as well as to an ancient gatekeeper. FTP, composed of thirteen chapters, what is this work written by Sun Tzu?

Answer: The Art of War

11. (greg_ceurhist) **It was during this conflict that a type of improvised gasoline bomb that had been first used in the Spanish Civil War became known as the Molotov Cocktail.** (*) Despite their ineffective battlefield performance and the loss of nearly 130,000 troops, the USSR was able to gain control of large swaths of Finnish territory, including the strategic region of Karelia. FTP, name this 1939-40 conflict that exposed the weaknesses of the Red Army and influenced Hitler's decision to invade the Soviet Union.

Answer: The Winter War (do not accept Continuation War)

12. (jgaunt_mischist) **He published a paper in 1872 in which he defined irrational numbers in terms of converging sequences of rational numbers.** (*) He proved that rational numbers are in fact countable, but had problems in proving that real numbers are countable. He finally proved they are not countable in a work published in 1874. FTP, name this mathematician who, in a series of books, provided a basic introduction to set theory, whose last papers were published in 1897.

Answer: Georg Cantor

13. (piguy_bio) **An estimated one in four married women between the ages of 15 and 44 has chosen this procedure, which involves two small incisions in the abdomen and a laproscope, as an effective means** (*) of sterilization. This procedure is generally performed under general anesthesia and prevents transport of the ovum to the uterus and blocks the passage of sperm to the ovulating ovary. FTP, name this highly effective means of birth control.

Answer: tubal ligation (prompt on "tubes tied")

14. (Maddog_AmHist) **First created to trade furs and tobacco in 1638, it was the brainchild of a Finnish admiral, an enterprising Dutchman, and a** (*) Swedish statesman, and was one of the first European colonies in the present day United States. It included pieces of Pennsylvania, Maryland, and Delaware, and had its capital on present day Wilmington, Delaware. FTP, name this colony led by Peter Minuit that was taken by the Dutch and Peter Stuyvesant in 1655.

Answer: New Sweden

15. (piguy_chem) **In a 1955 article in the Journal of the American Chemical Society, the man who described this postulate stated that "If two states occur consecutively during a reaction process and have nearly the same energy content, their interconversion will only involve a small reorganization of molecular structure."** (*) The general rule that this namesake man described tells chemists something about the transition states in endothermic and exothermic reactions. FTP, name this postulate, which states that the structure of a transition state resembles the structure of the closest stable species.

Answer: Hammond postulate

16. (laura_psych) **This medical condition typically develops in late adolescence or early adulthood and affects about one percent of Americans ages 18 and older.** (*) To treat this multi-faceted disorder, FDA-approved medication for merely one of facets is often used to treat the entire disorder, such as valproate or lithium. Newer research concerns the

investigation of the use of anticonvulsant medications along with lithium for maximum effectiveness in treating this disorder. FTP, name this disorder characterized by the presence of both unusual highs and lows in a person's mood.
Answer: _bipolar_disorder_ (accept _manic-depressive_ illness)

17. (kerrith_blit) **The titular character is a poor, elderly shepherd, who has lived in the hills all his life (*)** and hopes someday to complete the stone sheep-pen he is building. His only son, born to him in his old age, is the old man's only hope and joy. So naturally, when the boy goes out into the world, he becomes corrupt and lazy and eventually has to flee the country. Then the old shepherd dies, without completing his sheep-pen. FTP, name this cheerful and uplifting poem by William Wordsworth.
Answer: _"Michael"_

18. (tallpaul_bhst) **Despite being strongly associated with Scotland, this man was born in Rome, Italy on December 31, 1720 and brought up there while his father remained in exile after having failed to regain the throne of England formerly held by his own father, King James II. (*)** Thus, this man spent many years trying to claim his rightful royal post. After his early success at the Battle of Prestonpans, his army stormed into England, coming within 100 miles of London itself. However, he was defeated by the Duke of Cumberland at Culloden, resulting in his flight to France and the destruction of the clan system. FTP, name this Stuart prince that was nicknamed the "Young Pretender."
Answer: _Bonnie Prince Charlie_ (accept Charles Edward Stuart, Prince Charles Edward Louis Philip Casimir Stuart, and Charles III) (prompt on Young Pretender on early answers)

19. (piguy_bio) **These natural phenomena can be broken down into two forms of circulation: wind-driven and thermohaline. (*)** The paths that these natural phenomena follow are partly caused by the Coriolis Effect, with the effects being different in the two hemispheres. Circular varieties of these that are generated by prevailing winds are called gyres. FTP, name this global happening that is the result of the persistent prevailing winds blowing over the ocean that produce these mass movements of water.
Answer: _ocean_currents_

20. (kyle_flit) **Upon translating a 1747 work by Ephraim Chambers into French, this man, along with his friend Jean Le Rond d'Alembert, turned the project into a completely new work. (*)** His other works include *Essai sur le merite et la vertu*, *Dictionnaire de medecine*, *Pensees philosophiques*, and *Lettre sur les aveugles*. FTP, who is this man responsible for the first modern encyclopedia?
Answer: _Denis_Diderot_

21. (Maddog_econ) **Principally a response to the Keynesian school, which focuses on what government can do to stimulate or restrain aggregate demand, the main focus of this school (*)** is identifying ways that the government can promote faster economic growth by removing impediments to the supply and efficient use of factors of production. It became well known to the public in the 1980s because it was supported by an influential group of economic policy makers in the White House. FTP, identify this school of economics, sometimes referred to as Reaganomics.
Answer: _supply-side_economics_ (accept voodoo economics anytime, accept Reaganomics before mentioned)

22. (Maddog_geog) **In 1806, Russian botanist Mikhail Adams discovered the remains of a frozen mammoth near the shores of this river. (*)** Over 2,700 miles long, it is the tenth longest river in the world. It begins near Lake Baikal and meanders northward through Siberia before entering into the Laptev Sea. FTP, identify this river which flows through the city of Yakutsk, the longest in Siberia.
Answer: _Lena_River

23. (brian_alit) **Born in Bethlehem, Pennsylvania, in 1886, she is known as one of the greatest poets of the Imagist movement, (*)** which rejected Victorian romanticism for sharp, precise language. A heroine to the contemporary feminist movement, she had a lifelong admiration for ancient Greek thought and lifestyles, later mixing in spiritualist thought and an interest in Egyptology. FTP, name this poet usually known by her initials, author of "Trilogy" and "Helen in Egypt."
Answer: _Hilda_Doolittle_ (accept H.D.)

Bonii 9

1. (nick_curr) Answer the following questions concerning the explosion of the tanker *Limburg* for the stated number of points.

15—The *Limburg* exploded off the coast of what country?

Answer: Yemen

10—What was the *Limburg's* home country?

Answer: France

5—Its contents belonged to Petronas, the state oil company of what country?

Answer: Malaysia

2. (piguy_bio) FTPE, given the following organism examples, name the phyla to which they belong.

10—Sunflowers, grasses, oaks.

Answer: Anthophyta

10—*Hydra*, jellyfish, corals.

Answer: Cnidaria

10—Planarians, flukes, tapeworms.

Answer: Platyhelminthes

3. (greg_ceurhist) FTPE, answer the following questions about Niccolo Machiavelli.

10—Machiavelli's political career came to an end with the fall of the republican government of what Italian city in 1512?

Answer: Florence (accept Firenze)

10—Machiavelli wrote his most famous work, *The Prince*, in an attempt to win the favor of what Florentine ruling families?

Answer: De Medici

10—In addition to *The Prince*, Machiavelli wrote discourses on the first ten books of what Roman historian?

Answer: Titus Livy

4. (Maddog_asianhist) FTPE, name the Persian dynasty from clues.

10—Cyrus, Darius, and Xerxes were all members of this dynasty that ruled until conquered by Alexander the Great.

Answer: Achaemenid

10—This dynasty, established by one of Alexander's generals, ruled until its power was usurped by the Parthians in the 3rd century BCE.

Answer: Seleucid

10—After the end of Parthian domination, this dynasty came to rule the second Persian empire. They conquered nearly all of the lands ruled by the earlier Achaemenids but were eventually driven out by the Muslim Saracens.

Answer: Sassanid

5. (jlive_philo) FTPE, identify the theory of truth being described.

10—In this theory, the truth of a proposition depends primarily on its consistency with a certain set of other propositions.
Answer: _coherence_

10—In this theory, the truth of a proposition depends on its relation to the facts. A proposition is true if it points to a fact in the world or correctly says there is no fact in the world to point to, and it is false or meaningless otherwise.
Answer: _correspondence_

10—The predicate "... is true" does not have a sense in this theory related to the disquotational theory of truth. Thus, asserting "it is true that p" is equivalent to asserting "that p."
Answer: _redundancy_ (accept minimalist and deflationary)

6. (piguy_chem) FTPE, answer the following questions about protein classification.

10—This type of protein hydrolyzes to give only amino acids. Examples include insulin, ribonuclease, oxytocin, and bradykinin.
Answer: _simple_ protein(s)

10—Proteins belonging to this group are bonded to a non-protein group such as a sugar, a nucleic acid, a lipid, or some other group.
Answer: _conjugated_ protein(s)

10—The non-protein part of a conjugated protein is called this.
Answer: _prosthetic_ group

7. (brian_polisci) Name these Democratic senators from the southeast who previously served as governors for the stated number of points.

15—This seven-term South Carolina senator was appointed in 1966 and is retiring at the end of his current term. He first erected the Confederate flag over the South Carolina Capitol.
Answer: Ernest "Fritz" _Hollings_

15—Appointed by then-Governor Roy Barnes in 2000 to fill the unexpired term of the late GOP Senator Paul Coverdell, this former two-term Georgia governor has proven a maverick Democrat, frequently breaking with party leadership and endorsing George W. Bush's re-election bid.
Answer: Zell _Miller_

8. (kyle_misclit) In 1944, he was shipped off to the infamous Auschwitz concentration camp and was freed a year later from Buchenwald. His novels dealt with the day-to-day ordeal Jews faced rather than the moral implications of the Holocaust. Now, answer these questions for the stated number of points.

10—Who is this Hungarian author?
Answer: Irme _Kertész_

5—In what year did Kertész win the Nobel Prize for Literature?
Answer: _2002_

15—Identify the title of his first novel, published in 1975 and translated into English in 1992. This novel describes, in a down-to-earth tone, the daily events of a young boy unaware of what will happen next.
Answer: _Fateless_ (accept *Sorstalanság*)

9. (mkirch_mischist) FTPE, answer these questions about frustrated scientists.

10—This scientist named X-rays as such when he discovered them, because he really didn't know what they were.
Answer: Wilhelm_Roentgen_

10—This newspaper tycoon frustrated an astronomer when he sent a telegram to the astronomer asking, "Is there life on Mars? Please cable one thousand words." The response: "Nobody knows," repeated 500 times.
Answer: William_Randolph_Hearst_

10—This scientist figured out two and a half centuries before Darwin that fossils indicated the history of appearance and extinction of species, and gets little recognition for it, as he is more well-known for his description of cells.
Answer: Robert_Hooke_

10. (piguy_sports) Many quarterbacks have thrown for six touchdowns in a game, with the last being Peyton Manning on September 28, 2003 versus the New Orleans Saints. Few, however, have ever thrown for seven touchdowns in game. You will receive 5 points for naming one of the five members of this exclusive club, 10 for two, 20 for three, or 30 for four.
Answer: Sid_Luckman_, Adrian_Burk_, George_Blanda_, Y.A._Tittle_, Joe_Kapp_

11. (jlive_phys) Five for one, ten for two, twenty for three, or thirty for all four, given an essay in physics and the year in which it was published, identify its author.

A—"On the Electrodynamics of Moving Bodies," 1905.
Answer: Albert_Einstein_

B—"A 1,500,000 Volt Electrostatic Generator," 1931.
Answer: R.J._van de Graaff_

C—"Visible Emission of Clean Liquids by Action of Gamma Radiation," 1934.
Answer: P.A._Cerenkov_

D—"Broken Symmetries and Masses of Gauge Bosons," 1964.
Answer: P.W._Higgs_

12. (Maddog_AmHist) While it seems that Castro has been alive since the Paleozoic era, there was in fact Cuban history before him. FTPE, answer these questions about pre-Castro Cuba.

10—Named for the amount of time it raged, this conflict was the Cuban war for independence.
Answer: _Ten Year's War_

10—The United States has been notoriously prone to meddling in Cuban affairs. Named after a senator from Connecticut, this rider on the Army Appropriations Act was forced into Cuba's first constitution and made Cuba little more than a protectorate of the United States.
Answer: _Platt Amendment_

10—One of the few Cuban settlements not created by the Spanish, this sugar processing center was founded by French immigrants from Louisiana in 1819. It was destroyed by a tropical storm in 1825 but was rebuilt and today is a city of 125,000.
Answer: _Cienfuegos_

13. (kyle_flit) FTPE, identify the following French authors who committed suicide, or at least attempted the deed.

10—This fiery poet, who wrote his best work in his teens, died in a hospital in Marseille after a self-inflicted gunshot wound. His works include *A Season in Hell*.

Answer: Arthur Rimbaud

10—It is not known whether this short story author tried hanging himself with a “necklace,” but he died a year after his attempt. It probably didn’t help that he had gone mad from syphilis.

Answer: Guy de Maupassant

10—He became popular for his French translations of Goethe’s works and influenced the writing styles of Marcel Proust and René Daumal, but hung himself outside his window in 1855.

Answer: Gérard de Nerval (accept Gérard Labrunie)

14. (Maddog_{blit}) FTPE, name these works of English literature with similar themes.

10—This work by Sir Thomas More tells the fascinating story of Raphael Hythloday, whom the narrator meets in Antwerp.

Answer: Utopia

10—In this piece by Francis Bacon, the author expresses his empirical views through the narrator, who attempts to record all he sees in the land of Bensalem.

Answer: The New Atlantis

10—In this Utopian work, Henry Neville uses two narratives—the first is of the founder of the title island and the second is about a Dutch sailor who stumbles upon the island and the founder’s descendants years later.

Answer: The Isle of Pines

15. (Maddog_{Art}) FTPE, given a famous portrait and the year it was produced, identify the artist.

10—*Louis XIV*, 1701.

Answer: Hyacinth Rigaud

10—*Henry VIII*, 1540.

Answer: Hans Holbein the Younger

10—*Charles Sackville, 2nd Duke of Dorset*, 1730.

Answer: Rosalba Carriera

16. (chalsey_{myth}) FTPE, name the Greek god given a unique attribute other than sleeping around with other gods.

10—He always had his caduceus and petasus at hand.

Answer: Hermes

10—She is usually seen with her aegis shielding her.

Answer: Athena

10—Her favorite bird contained all one hundred of Argus’ eyes in its tail feathers.

Answer: Hera

17. (Maddog_{archaeol}) FTPE, identify the individuals who discovered these significant archaeological sites.

10—Mohenjo Daro.

Answer: Sir John Marshall

10—Machu Picchu.

Answer: Hiram _Bingham_

10—Troy.

Answer: Heinrich _Schliemann_

18. (jgaunt_alit) FTPE, Identify the Eugene O’Neill play from descriptions.

10—A tragic Greek story provides mythical resonance in this story of a New England family coping with death during the Civil War.

Answer: *_Mourning Becomes Electra_*

10—Subjects on a West Indian island revolt, drive their master into the jungle, and finally kill him.

Answer: *_The Emperor Jones_*

10—This play, O’Neill’s only comedy, is a story of small town life set at the author’s summer home in Connecticut.

Answer: *_Ah Wilderness!_*

19. (piguy_bio) FTPE, given the following effectors, say whether the action is sympathetic, parasympathetic, neither, or both.

10—Constriction of bronchial tubes.

Answer: *_parasympathetic_*

10—In the iris, the dilation of the pupil.

Answer: *_sympathetic_*

10—In the penis, the constriction of blood vessels and ejaculation.

Answer: *_sympathetic_*

20. (jgaunt_alit) Because one of our question writers wishes to reminisce on his younger days, answer these questions about books we may have read a long time ago as children, FTPE.

10—This R.L. Stine series gave us chills with the books *The Werewolf of Fever Swamp* and *Phantom of the Auditorium*.

Answer: *_Goosebumps_*

10—This boy detective from Idaville uses his intelligence to solve crimes brought home by his police chief father and to outwit Bugs Meany.

Answer: Leroy *_“Encyclopedia” Brown_*

10—This Caroline B. Cooney novel details 15 year old Jane Johnson’s attempts to reconstruct her life after she sees a picture of a three year old version of herself on a drink box.

Answer: *The _Face on the Milk Carton_*

21. (tallpaul_bhish) Name the following famous battles of Scottish history for the stated number of points.

15—This battle was one of the series of conflicts contained within the Wars of Scottish Independence. It occurred on September 11, 1297 and pitted the Scottish forces led by William Wallace and the English forces led by Hugh de Cressingham. This battle occurred at Falkirk and ended with a decisive Scottish victory even though the Scottish forces were greatly outnumbered by the English.

Answer: Battle of *_Stirling Bridge_*

15—Defeat in this battle was one of the most devastating in Scottish history. Some reports concluded that 10,000 Scots perished on the field, including King James IV, the brother-in-law to Henry VIII of England. As a result, Henry grudgingly rewarded the Earl of Surrey, who led the English to victory, with the Dukedom of Norfolk. Name this important battle of 1513, where many Scottish nobles met their end.

Answer: Battle of Flodden Field

22. (jlive_math) More fun with mathematics!

10—Suppose F is a sub-field of some field E . Then E is said to be this of F .

Answer: extension field

10—If the extension field E of a field F is equal to F adjoined α for some α in E , then we say that E is this type of extension of F .

Answer: simple

10—Identify the following theorem: Let F be a field and let f of x be a non-constant polynomial in the ring of polynomials in x over F . Then there exists an extension field E of F and an element α in E such that f of α equals zero.

Answer: Kronecker's Theorem

23. (jgaunt_mischist) Name these Australian exports to Hollywood for the stated number of points.

15—This actor first garnered attention in the U.S. by playing Cort in Sam Raimi's *The Quick and the Dead*. He later starred in *Virtuosity* with Denzel Washington and also starred in *L.A. Confidential*.

Answer: Russell Crowe

5—This actress was actually born in Honolulu. Her U.S. debut came in *Dead Calm* with Sam Neill and she later won an Oscar for her portrayal of Virginia Woolf in *The Hours*.

Answer: Nicole Kidman

10—This actor portrayed the protagonist in 2002's *The Time Machine* but is probably more well-known for playing Leonard Shelby in *Memento*.

Answer: Guy Pearce