

2004 Truman State  
Brainal Leakage  
Packet 8

Tossups

1. (brian\_geog) **It's been called "the most famous small town in the world," and it calls itself "America's Hometown."** (\*) The hometown of Edward Lear, inventor of the Learjet, M\*A\*S\*H's Colonel Potter, and your very own question-writer, it has a population of 18,000 and is best known as a tourist trap, although its economy is largely based on manufacturing. FTP, name this small northeast Missouri town, boyhood home of Mark Twain and called "St. Petersburg" in his novels.

Answer: \_Hannibal\_

2. (piguy\_chem) **When water attacks the protonated form of this group of compounds, a 1,2-diol, called a glycol, is formed.** (\*) An alkene is converted to this type of compound by a carboxylic acid that has an extra oxygen atom in a peroxy linkage. Compounds of this group are valuable synthetic intermediates used for converting alkenes to a variety of other functional groups. FTP, name this group of compounds, also called oxiranes, that is defined as being a three-membered cyclic ether.

Answer: \_epoxide\_ (accept oxirane for early answers)

3. (kyle\_alit) **A song based on this poem debuted in Simon and Garfunkel's 1966 album, *Sounds of Silence*. Written 70 years earlier, the title character of this poem fits** (\*) into Emile Durkheim's suicide criteria, being a wealthy white male with few friends. FTP, identify this poem by E. A. Robinson, where the wealthy banker went home one summer night "and put a bullet through his head."

Answer: \_ "Richard Cory" \_

4. (jlive\_phys) **Its thermal efficiency cannot be reduced to the expression T-sub-2 minus T-sub-1 all over T-sub-2. Though it has a lower efficiency,** (\*) it corresponds more nearly to the sequence of states assumed by the working substance in a reciprocating steam engine or turbine than does the Carnot cycle. FTP, identify this heat engine named for a Scottish civil engineer.

Answer: \_Rankine\_ Cycle

5. (Maddog\_asianhist) **After a coup deposed her father in 1977, she and her mother assumed the leadership of the PPP** (\*) but were thrown in jail by the military government. After prison, she spent a few years in exile in the United Kingdom but returned in 1986 and was elected prime minister two years later before herself being deposed. FTP, name this first female Prime Minister of any Islamic nation who faces arrest if she returns to Pakistan.

Answer: \_Benazir Bhutto\_

6. (greg\_polisci) **He served with the foreign legion in Indochina and campaigned for right wing politician Jean-Louis Tixier-Vignancour before founding the Front National party in 1972.** (\*) In addition to the elimination of inheritance tax and the renegotiation of European treaties, his main political goal is the restriction of immigration, which he sees as a major threat to French culture. FTP, name this right wing French politician who won a surprise victory over socialist Prime Minister Lionel Jospin in the first round of the 2002 French presidential elections.

Answer: Jean-Marie \_Le Pen\_

7. (piguy\_sports) **This women's tennis star had a .900 winning percentage in her career,** (\*) the best in professional tennis history. She won 18 Grand Slam singles titles in her career, winning at least one Grand Slam tournament every year for 13 years, from 1974 to 1986. FTP, name this famous tennis player who ended her great career in 1989.

Answer: Chris \_Evert\_

8. (kerrith\_blit) **What is "Operation Startrek?" It's never made clear, but it centers on Indira Gandhi's assassination.** (\*) It's all about British spies in India, Indian spies in Britain, and a couple of government agents who watch from behind the scenes as the good ship "Hindustan" threatens to fly to pieces. They aren't the leaders, yet without them "no course can be laid, no hailing frequencies opened." FTP, name this short story by Salman Rushdie, a slanted mix of pop culture and politics.

Answer: \_Chekov and Zulu\_

9. (piguy\_bio) **A British Institution of Preventative Medicine that was previously named after Edward Jenner was renamed in 1899 in honor of this man.** (\*) At age 75, he was awarded the Order of Merit for his work in preventing the spread of infection. This man is considered the father of antiseptic surgery, and his methods, the first aseptic techniques, were proven effective by the decrease in surgical wound infections in his surgical wards. FTP, name this man for whom the mouthwash Listerine is named.

Answer: Joseph\_Lister\_

10. (Maddog\_mischist) **Born in Valladolid, New Spain in 1765, this man's exploits would lead to his birth city being renamed in his honor. He was educated as a parish priest and served in this faculty until he joined the rebellion** (\*) against Spain in 1810. By 1811, he was the leader of the Mexican revolt and in 1813 captured Acapulco and sponsored the provisional Congress of Chilpancingo. Captured by royalist forces in November 1815, he was defrocked by the inquisition and executed. FTP, name this second leader of Mexico's independence movement, the successor of Miguel Hidalgo.

Answer: Jose Maria\_Morelos\_y Pavon

11. (jlive\_math) **In 1909, Borel asked whether or not it was normal, and Brouwer wanted to know if zero was repeated a thousand times anywhere in its** (\*) decimal expansion. It is equivalent to the sum, as  $k$  goes from zero to infinity, of four times negative one to the  $k$  power, divided by two  $k$  plus one. FTP, identify this number, the ratio of the circumference of a circle to its diameter.

Answer: \_pi\_

12. (kyle\_music) **This band formed in 1967, and was originally a British blues band. After three members—Jeremy Spencer, Danny Kirwan, and Peter Green—** (\*) departed, the remaining two members, both rhythm players, invited Christine McVie to join. In 1975, Lindsey Buckingham also joined, providing the vocals and guitar skills for several of their hits. FTP, what is this band, who alongside Stevie Nicks, performed "Rhiannon," "Little Lies," and "Go Your Own Way"?

Answer: \_Fleetwood Mac\_

13. (piguy\_currev) **The FDA recently expressed caution over this commonly used substance, which accounts yearly for 56,000 visits to the emergency room due to overdose as well as 100 overdose-related deaths.** (\*) This new concern is wide-reaching, since over 100 million people use this drug every year. This drug is abbreviated APAP when it is contained within prescription drugs such as Vicodin. FTP, name this drug, often associated as being the active ingredient in Tylenol.

Answer: \_acetaminophen\_ (prompt on any brand names)

14. (Maddog\_AmHist) **Seeing the natives of Mexico unite under Tenamxhtli, this became one of the most well documented conflicts between the invading Spanish and the natives of Mexico. It rose as a revolt** (\*) against the violent and bloody conquest of Nuno de Guzman and the injustice imposed by the encomienda system. FTP, name this revolt that occurred in the Nueva Galicia region of western Mexico in 1541, in which the Aztecs actually fought on the side of the Spanish.

Answer: \_Mixton War\_

15. (kyle\_misclit) **This Italian work is composed of sonnets and canzoni brought together into a prose commentary. Written after the death of his beloved Beatrice,** (\*) the author beautifully narrates through his undying love for her despite having a dream of her apparent death, her actual death, and his desire to immortalize his love through this work. The work also suggests a spiritual significance to his adoration. FTP, identify this work by Dante which literally translates into "The New Life."

Answer: \_La Vita Nuova\_

16. (piguy\_sports) **In November 1975, this quarterback broke Johnny Unitas' record for all-time pass completions when he hit the 2,831 mark.** (\*) His career marks were substantial to his team, as he led them to three Super Bowls. He finished his Hall of Fame career in 1978 with the records for completions, attempts, yards, and touchdowns, only to see Dan Marino break all of them in his respective illustrious career. FTP, name this former Minnesota Vikings quarterback.

Answer: Fran\_Tarkenton\_

17. (tallpaul\_bhst) **When Richard the Lion-Hearted died in 1199, his brother John immediately claimed England, but much of the French nobility refused to recognize him as king, preferring this man.** (\*) After all, he was the designated heir to the throne of England, being the posthumous son of Geoffrey Plantagenet and Constance, Duchess of Brittany. During a war with John, he laid siege to Poitou, but was surprised at Mirabeau, captured, and imprisoned at Falaise. After being transferred to Rouen, he vanished mysteriously in 1203, bringing John under immediate suspicion. FTP, name this man.

Answer: \_Arthur I\_, Duke of Brittany

18. (jlive\_philo) **The classic example of this phenomenon is the waiter who plays at being a waiter in a café. It is “a lie to oneself within the unity of a single consciousness,” and by it “a person seeks to escape responsible freedom of** (\*) Being-for-itself.” It is also the subject of chapter two in part one of *Being and Nothingness*. FTP, identify this term that may seem out of place in the vocabulary of an atheist like Sartre.

Answer: \_bad faith\_

19. (kyle\_flit) **This French story analyzes the impact of the unionization of miners and explores socialist doctrines. A drifter named Étienne Lantier** (\*) arrives in a mining town and quickly becomes the leader of the miners. Despite being considered a murderer, the criminal is actually the father of Catherine Maheu, Lantier’s love interest, who strangles the only child of the mine’s owners. The last scene has Lantier leaving town, walking down the road with spring in bloom, in what story by Émile Zola?

Answer: \_Germinal\_

20. (brian\_religion) **These divisions have very much the same chronological structure: its name, the date, the number of ayas, the Bismillah, the mystical letters, and the text itself.** (\*) Eighty-six of these divisions are thought to have been written by Mohammed while in Mecca and are known, appropriately enough, as “Meccan,” the other twenty-eight were probably written in Medina and are similarly dubbed “Medinan.” FTP, give the name for these 114 divisions of the Koran, the first of which is al-Fatiha and which range in length from three to 286 verses.

Answer: \_Sura(s)\_

21. (Maddog\_gender) **In one of her more notable cases, she represented the Cherokee nation in a \$5 million lawsuit against the U.S. government. In 1879, she drafted the law that allowed women to practice before the U.S. Supreme Court.** (\*) Fittingly, she was the first woman to appear before the court. She was also instrumental in obtaining equal pay for female federal employees. FTP, name this woman, the presidential candidate of the Equal Rights Party in 1884 and 1888.

Answer: Belva Ann \_Lockwood\_

22. (jgaunt\_mischist) **His house on St. Peter’s Hill, near St. Paul’s Cathedral, became the rendezvous of a number of men of science, a method of gathering that was a forerunner to the Royal Society.** (\*) He helped inaugurate the experimental method and repudiated the blind subservience to ancient authority. His work, *De Magnete, Magneticisque corporibus et de magno magnete tellure*, explained why compasses point in one direction when freely suspended. FTP, name this “Father of Magnetic Philosophy” whose aforementioned work was the first purely scientific work published in Great Britain.

Answer: William \_Gilbert\_

23. (jgaunt\_alit) **Believing his family is cursed by Madame Zeroni,** (\*) this person always tries to look on the bright side of things, even after being convicted of a crime he didn’t commit. His punishment is being sent to a work camp, Camp Green Lake. FTP, name this character who eradicates the curse with the aid of a friend named Zero, the protagonist of *Holes*.

Answer: Stanley \_Yelnats\_

Bonii

1. (jlive\_phys) Identify the subatomic particle given the name of its discoverer and the year of its discovery FTPE.

10—Chadwick, 1932.

Answer: \_neutron\_

10—Neddermeyer and Anderson, 1937.

Answer: \_muon\_

10—Cowan and Reines, 1956.

Answer: \_electron neutrino\_

2. (Maddog\_econ) FTPE, identify the noted economist from works.

10—*A Monetary History of the United States; 1867-1960; Dollars and Deficits.*

Answer: Milton \_Friedman\_

10—*Principles of Economics; Industry and Trade.*

Answer: Alfred \_Marshall\_

10—*The General Theory of Employment Interest, and Money; A Treatise on Money.*

Answer: John Maynard \_Keynes\_

3. (Maddog\_geog) FTPE, given mountains, identify the mountain range.

10—Mount Shasta, Mount Hood, Lassen Peak.

Answer: The \_Cascades\_

10—Gora Noradnaya, Mount Salbya, Kanzhakovskiy Kamen.

Answer: The \_Urals\_

10—Ojos del Salado, Tupungato, Sajama.

Answer: The \_Andes\_

4. (piguy\_bio) FTPE, answer the following questions relating to transcription and translation.

10—This is a type of modification to precursor mRNA in which certain pieces of the RNA are removed and the remaining pieces are covalently attached to each other.

Answer: \_splicing\_

10—During splicing, these noncoding regions are excised from the RNA so that the remaining coding regions can be attached to each other.

Answer: \_intron(s)\_

10—Since the genetic code is degenerate, that is, since more than one codon can specify the same amino acid, the third base of a codon is sometimes called the degenerate base, or more succinctly, this term.

Answer: \_wobble\_ base

5. (jlive\_ast) We all know the Galilean moons Io, Europa, Ganymede, and Callisto. Now, for five points each with a maximum of thirty possible, identify the *other* moons of Jupiter.

Answer: \_Metis, Adrastea, Amalthea, Thebe, Leda, Himalia, Lysithea, Elara, Ananke, Carme, Pasiphae, and Sinope\_

6. (Maddog\_AmHist) Few periods of U.S. History are asked about more, so FTPE answer these questions about post-Civil War Reconstruction.

10—This was the slang term used to describe opportunistic northerners who settled in the South.  
Answer: \_carpetbaggers\_

10—This slang term was used as a label for southerners who joined the Republican Party.  
Answer: \_scalawags\_

10—Passed by Congress in July 1864, this bill required 50% of a state's legal voters to swear they would never again support the Confederacy, but Lincoln viewed it as antagonistic and pocket vetoed it.  
Answer: \_Wade-Davis\_Bill

7. (laura\_psych) Answer the following questions about prescription drugs for 15 points each.

15—These types of anti-depressants were some of the first developed. They function by inhibiting the enzyme that breaks down neurotransmitters such as serotonin and dopamine.  
Answer: \_MAOI\_ (accept monoamine oxidase inhibitors)

15—These medications work by specifically blocking the presynaptic serotonin transporter receptor on neurons, thereby keeping serotonin levels high in the brain. Commercially available examples of this type of medication include Prozac, Paxil, and Zoloft.  
Answer: \_SSRI\_ (accept selective serotonin reuptake inhibitors)

8. (jlive\_cs) Answer the following questions about parallel computing FTPE.

10—Whenever the computing speed of a system can be increased only by simultaneously increasing the clock speed and decreasing the latency of the circuits, the system is said to display this characteristic.  
Answer: \_von Neumann bottleneck\_

10—A classical von Neumann computer issues one instruction that operates on one data segment. Such a computer is said to have SIS-D architecture. In what parallel architecture does each processor receive a distinct instruction and every processor use the same input?  
Answer: \_MIS-D\_ [accept "multiple-instruction, single-data-segment"]

10—In this parallel computing topology, there are two to the n processor elements with each element connected to n other elements.  
Answer: \_n-cube\_ [accept "hypercube"]

9. (chalsey\_religion) For the stated number of points, flaunt your knowledge of the founders of religion.

5—Founder of Scientology.  
Answer: L. Ron\_Hubbard\_

10—Founder of the Quakers, also known as the Society of Friends.  
Answer: George\_Fox\_

15—Founder of Jainism.  
Answer: \_Mahavira\_ (accept Mahavir, Vardhamana, and Niggantha Nathaputta) (prompt on Great Hero)

10. (piguy\_chem) FTPE, answer these questions about atomic structure.

10—This principle states that each orbital can hold a maximum of two electrons, provided that the spins are paired.

Answer: Pauli exclusion principle

10—Meaning “building up” in German, this principle states how to build up the electronic configuration of an atom’s most stable state.

Answer: aufbau principle

10—This rule states that when there are two or more orbitals of the same energy, electrons will go into different orbitals rather than pair up in the same orbital.

Answer: Hund’s rule

11. (tallpaul\_bhist) For years, England attempted to control France. So now, FTPE, identify the battle or city of importance during the Hundred Years' War.

10—This August 1346 battle foreshadowed the end of medieval warfare, as English longbowmen massacred a French army of knights twice as large as the English force.

Answer: Battle of Crecy

10—Taking advantage of a factionally divided France, Henry V invaded in this 1415 battle and scored a victory similar to that at Crecy.

Answer: Battle of Agincourt

10—At the end of the Hundred Years' War, England's French possessions had been reduced to this Channel port, whose loss in 1558 ended wild dreams of a French empire.

Answer: Calais

12. (katypeters\_music) Answer the following related questions about a composer for the stated number of points.

5—There are actually five songs that share this title, but it is *No. 1* that is best known in the United States as the quintessential graduation processional.

Answer: Pomp and Circumstance

10—Name the composer of *Pomp and Circumstance*.

Answer: Edward Elgar

15—Elgar also wrote these fourteen variations, each dedicated to one of his friends.

Answer: Enigma Variations

13. (kyle\_misclit) FTPE, identify each of these plays by Aristophanes.

10—This satire of the Greek philosopher Socrates was first produced in 423 BC.

Answer: The Clouds

10—Aristophanes slams Athenian military leader Cleon in this 424 BC satire.

Answer: The Knights

10—Name either of the plays where Aristophanes attacks his rival playwright Euripides.

Answer: Thesmophiazusae OR The Frogs

14. (Maddog\_ceurhist) FTPE, answer these questions about the Spanish Reconquista.

10—In 1094, Spanish national hero El Cid captured this city in eastern Spain from the Almoravids, and he held it until his death in 1099.

Answer: \_Valencia\_

10—In 1212, the Muslim Almohads suffered a crushing defeat at the hands of the Christian forces in this battle, opening the way to the Christian conquest of Andalusia.

Answer: \_Las Navas de Tolosa\_

10—The united kingdoms of Castile and Aragon captured this last Muslim stronghold in Spain in 1492, the same year Columbus sailed.

Answer: \_Granada\_

15. (kyle\_misclit) This novel came out in two parts: 1605 and 1615, and was written by a novelist who died in 1616. FTPE, answer the following questions about this novel.

10—Name the title character of this Spanish novel who, after reading too many novels about chivalry, sets out on a journey with companion Sancho Panza.

Answer: \_Don Quixote\_

10—Quixote claims to fight for what young woman, who is really a simple country girl?

Answer: \_Dulcinea\_

10—Who is the author of this novel?

Answer: Miguel de \_Cervantes\_ Saavedra

16. (Maddog\_Art) For 15 points each, identify these art works with similar themes.

15—This painting by Jackson Pollack features two figures covered with symbols from the artist's subconscious. The gender of the figures is ambiguous, and the center of the painting is dominated by a white rectangle bisected by a vertical line of diamonds.

Answer: \_Male and Female\_

15—This pair of sculptures from Duane Hanson portrays an astonishingly lifelike overweight man and woman dressed in garish 1970s clothing.

Answer: The *Shoppers*

17. (Maddog\_blit) FTPE, identify these works of British author Kazuo Ishiguru.

10—This novel is written from the point of view of a British butler, looking back on the events of his career.

Answer: The *Remains of the Day*

10—In this 2000 Ishiguru work, a detective is plagued by flashbacks of his childhood in China. He returns to Shanghai to find out what really happened to his missing parents.

Answer: *When We Were Orphans*

10—This work, set in an eastern European country, follows the story of a pianist scheduled to perform a concert that he seems doomed not to reach.

Answer: The *Unconsoled*

18. (piguy\_bio) 30, 20, 10—Name the microorganism group.

30—This name, from the Latin meaning “first animals,” was originally given to animal-like organisms that are not multicellular.

20—Today, it is used as an informal designation for the protists that ingest food.

10—Its groups include amoebas, foraminiferans, actinopods, zooflagellates, ciliates, and apicomplexans.

Answer: \_protozoa\_

19. (tallpaul\_bhst) Two rival men dominated British politics in the second half of the 1800s. Identify them for 15 points apiece from the following clues.

15—This man was prime minister in 1868 and from 1874-80. He united the Conservative Party and pressed for the recognition of trade unions and public health reform.

Answer: Benjamin \_Disraeli\_

15—Disraeli's archrival, this Liberal leader was prime minister from 1868-74, 1880-85, and 1892-94. He believed moral principles underlied politics and was obsessed with Irish Home Rule.

Answer: William \_Gladstone\_

20. (greg\_alit) It is accepted fact that Alex Halley and not Malcolm X was the author of *The Autobiography of Malcolm X*. The authorship of other well-known works is more hotly debated. For 15 points each, answer the following questions about famous books with disputed authors.

15—This book that presented the stories of eight famous Americans as examples of virtuous public service won its presidential author the Pulitzer prize, but many scholars debate whether it was actually written by a more accomplished historian.

Answer: \_Profiles in Courage\_ by John F. Kennedy

15—The fact that Harper Lee produced no other major novels before or after *To Kill A Mockingbird* has led some to speculate that it was not she who wrote the classic novel but rather this New Orleans-born author of *The Grass Harp*.

Answer: Truman \_Capote\_

21. (kyle\_flit) FTPE, identify following terms concerning French literature given a description.

10—Lyric poets and musicians from the 11<sup>th</sup> through 13<sup>th</sup> centuries who used their native Provençal language instead of Latin.

Answer: \_Troubadours\_ (accept Trouvères)

10—Troubadours used this type of fiddle, the ancestor of the violin, to convey their poetry.

Answer: \_Viele\_

10—Possibly devised by Cicero, Seneca, and Plutarch, the modern father of this type of writing is Michel Montaigne.

Answer: \_Essay\_

22. (Maddog\_asianhist) FTPE, name these Japanese military leaders of World War II from clues.

10—After intercepting news of this admiral's tour of the south Pacific, American war command sent sixteen P-38 aircraft to ambush him in the sky. On April 18, 1943, his G4M "Betty" aircraft was shot down and he perished.

Answer: \_Yamamoto\_ Isoroku

10—By 1941, this man was premier and was in command of the nation's entire military, making him de facto dictator. He resigned on July 18, 1944 and tried to commit suicide before being arrested but survived the self-inflicted gunshot wound in the chest only to be hung for war crimes.

Answer: \_Tojo\_ Hideki (accept Hideki Tojo)

10—This vice admiral was in command of the six aircraft carriers that launched the attack on Pearl Harbor. He lost four of these carriers at Midway and as the United States' capture of Saipan came near, he committed suicide.

Answer: Chiuchi \_Nagumo\_

23. (jgaunt\_mischist) No day could be complete without the following—answer the following questions about Devil's Island for the stated number of points.

5—Devil's Island belongs to which South American country?

Answer: \_French Guiana\_

15—After being framed for the murder of a pimp, this French safecracker was sentenced to Devil's Island in the 1930s. He tried to escape many times, attempting the escape multiple times until he reached old age. Note that we are asking for this man's real name.

Answer: Henri \_Charriere\_

10—French for “butterfly,” this was Charriere's nickname; fittingly, it is also the title of the 1973 film that starred Steve McQueen and Dustin Hoffman and detailed Charriere's ordeal.

Answer: \_Papillon\_