

Technophobia 4: Massive Quizbowl Overdose Caltech Packet Full of Kryptonite: Tossups

1. In August 1999, the British government demonstrated its lack of familiarity with C.S. Lewis by launching the National Institute for Clinical Excellence, or N.I.C.E. In this Lewis book, the same acronym is used by the National Institute for Co-ordinated Experiments, an evil scientific agency that tries to take control of the Earth. The novel's title is an allusion to the Tower of Babel. For 10 points--identify this sequel to *Out of the Silent Planet* and *Perelandra*.

answer: *That Hideous Strength*

2. Her works include abstract paintings such as *Fire Fan* and *Bird Red Slice*, as well as a still life of flowers and a stream, titled *Pink Pink Stink Nice Drink*. Since she was born on the Fourth of July, 1971, her full name is Japanese for "Fireworks-Child." In 1972, she began working with Penny Patterson and Ron Cohn to learn American Sign Language. For 10 points--identify this gorilla.

answer: Koko or Hanabi-Ko

3. Their radial light profiles are commonly represented by the de Vaucouleurs law, as the log of their surface brightness falls off as the radius from the center to the one-fourth power. They primarily contain old, low mass stars. For 10 points--identify this type of galaxies, one of the three primary types in Hubble's system of classification, early types of which are nearly circular, while late types have a long major axis and shorter minor axis.

answer: elliptical galaxies

4. With the province of Castile, this barren, elevated plateau constitutes one of Spain's "autonomous regions." Taking its name from the Arabic for "Dry Land" or "Wilderness," during the Middle Ages it was an intermediate zone between the Christian and Moorish forces. For 10 points--name this region, most famous for being the setting for Miguel de Cervantes' novel *Don Quixote*.

answer: La Mancha

5. "Take 'myself,' subtract 'movies,' and the remainder is zero," wrote this failed painter, known as "The Emperor" for his perfectionism and extravagance. His first film, *The Judo Saga*, was a hit with the public but not the military and he never won fame abroad until his Academy Award for Best Foreign Film in 1951. For 10 points--name this director of *Shadow Warrior*, *Throne of Blood*, and *The Seven Samurai*.

answer: Kurosawa Akira

6. Warning: two answers required. In computer science, one term refers to machines such as Motorola microprocessors which store the most significant byte of a word at a lower address than the least significant byte. The other term refers to machines such as Intel processors which use the opposite convention. The terms also refer satirically to Catholicism and Protestantism, or to any bitter dispute over trivial differences. For 10 points--identify these two political factions Gulliver encountered in Lilliput, who fought a civil war over the end at which one should break a soft-boiled egg.

answer: big-endians and little-endians

7. He organized a commune called Campeche at the present-day site of Galveston, Texas, which he governed briefly in 1819 until his lieutenants attacked U.S. ships in 1820. The following year he gathered a crew for his ship, the *Pride*, burned the town, and sailed off to plunder along the Spanish Main. For 10 points--name this privateer and smuggler who, in exchange for James Madison's pardon, led the Baratarian pirates in defense of New Orleans during the War of 1812,

answer: Jean Lafitte

8. At the age of nine, she fell in love with Tarzan, and believed she would make a better mate than the wimpy Jane. After leaving high school she became an assistant to Louis Leakey in Africa, and eventually obtained a Ph.D. from Cambridge without ever having been an undergraduate. For 10 points--name this author of *In the Shadow of Man*, famous for being the first to observe meat-eating, cannibalism, warfare, and tool use among chimpanzees.

answer: Jane Goodall

9. Chapter titles in this work include "Brute Neighbors," "Higher Laws," "Bread," and "The Village." Amidst discussion of these, many important details of the author's life are left out, like his brother's death of lockjaw, his miserable failures in love and at schoolteaching, his accidental burning of 300 acres of woodland and the night he spent in jail in 1846 to protest slavery and the invasion of Mexico. For 10 points--name this book subtitled "Life in the Woods," written by Henry David Thoreau.

answer: Walden

10. His "mother" was a male god who assumed female form in order to seduce his father, Svadilfari, and prevent a giant from completing a building contract on time. His owner was partly associated with the underworld, and according to one theory, he represents the four pallbearers who carry a coffin, which explains why he has eight legs. For 10 points--identify this magical horse, the steed of Odin.

answer: Sleipnir

11. It implies the existence of a quantum fluid formed by quasi-particles resulting from the combination of electrons with magnetic flux quanta. At low temperatures, under high magnetic fields, an increase in the strength of an applied field causes the change in the voltage of the deflected current due to this effect to occur in a series of steps proportional to integral numbers or fractions thereof. For 10 points--what Nobel Prize-worthy effect suggests that a current's charge carriers can carry exact fractions of an electron's charge?

answer: fractional quantum Hall effect
(do not accept or prompt on "Hall effect")

12. She not only acted in, but also designed the costumes for the 1997 film *Gummo*. More famous roles were as Debbie in Steve Buscemi's *Trees Lounge* and opposite Kate Beckinsale in *The Last Days of Disco*. For 10 points--name this actress, currently playing the object of Hilary Swank's affections in *Boys Don't Cry*, who made her debut as Jennie in 1995's *Kids*.

answer: Chloë Sevigny

13. The title character does not appear in any of the five sequels. He doesn't even appear very much in the original movie, since he is missing, in fact murdered. A wealthy inventor with an estranged wife, a money-hungry mistress, and a crooked accountant, his body is buried in someone else's clothes to confuse the police. For 10 points--identify this victim in the first of a series of movies starring William Powell and Myrna Loy, based on a novel by Dashiell Hammett.

answer: The Thin Man (accept: Wynant)

14. He believed that paintings should exist for their own sake, not to convey any political or moral message, and in order to compare painting to the abstract art of music, he often gave his paintings musical titles, such as *Symphony in Flesh Colour and Pink: Mrs. Frederick R. Leyland*, or *Miss Cicely Alexander: Harmony in Grey and Green*. For 10 points--identify this artist who painted *Nocturne in Black and Gold: The Falling Rocket*, and *Arrangement in Grey and Black, No. 1: The Artist's Mother*.

answer: James Abbott McNeill Whistler

15. He often tried to distribute "intergalactic drivers licences" and turned down a prestigious professorship at Chicago, saying he was slated to become emperor of Antarctica. When asked how he could believe he was being recruited by aliens, he said that the ideas came to him the same way his mathematical ideas did, so he took them seriously. For 10 points--name this schizophrenic "Phantom of Fine Hall" who won the 1994 Nobel Prize in Economics for his studies of game theory.

answer: John Forbes Nash, Jr.

16. In the early 20th century in America, this substance was defined as a harmful drug: its sales were restricted to licenced shops and it was heavily taxed and often bootlegged. In Europe, however, full-scale production began soon after Hippolyte Mege-Mouries developed it to win an 1869 contest sponsored by Napoleon III to find a synthetic edible fat. Named for the Greek for pearl--for 10 points--what is this mixture of fat, oil and water which finally gained respectability during World War II as a butter substitute?

answer: margarine

17. He fought with distinction at Fort Donelson and Shiloh, and his oft-quoted strategy, "Get there firstest with the mostest," proved helpful in his decisive defeat of a superior Union force at Brice's Cross Roads in 1864. Described as a "born military genius," the only blemish on his record was his slaughter of more than 300 black men, women and children after the surrender of Fort Pillow. For 10 points--name this Confederate general, best known as the First Grand Wizard of the Ku Klux Klan.

answer: Nathan Bedford Forrest

18. Its name means "damp earth," perhaps because much of its territory is covered by lagoons and swamps. Its principal cities include Frontera, a port on the Grijalva (read: gree-HAL-va) river, and the capital, Villahermosa (read: VEE-ya-air-MOH-sa). Bordered by Campeche (cahm-PAY-CHEY), Veracruz, Chiapas, and Guatemala--for 10 points--name this Mexican state, which shares its name with a well-known red chile sauce.

answer: Tabasco

19. He contracted syphilis from a prostitute named Squint-eyed Sarah, whom he celebrated in his early poems. An art critic at the Paris salons, he encouraged painters like Delacroix to express "the heroism of modern life." His most famous work includes sections such as "Spleen et idéal," about angst, and "Revolté," about Satanism, and also discusses death, drugs, and sexual depravity. For 10 points--who offended Parisian morality with the 1857 publication of *Les Fleurs du Mal*?

answer: Charles Baudelaire

20. A good example is the fluting on the columns outside a modern bank, which shows that the concrete pillars are trying to look like Greek marble columns, which were trying to look like carved wooden beams, which in turn were trying to look like bundles of reeds. Other examples are bowsprits on motorboats, horseheads on early automobiles, and woodlike grain on plastic mouldings. For 10 points--give the name for these traces of an earlier technology, from the Greek for "shadow shapes."

answer: skiamorphs

21. The first empire of this name flourished in the 10th century under Tsar Simeon but was forced to accept Byzantine domination in 1018. The second, with its capital at Turnovo, ruled much of the Balkan Peninsula but in 1396 was taken by the Ottoman Turks, who destroyed its nobility and enslaved its peasantry. For 10 points--name this nation created anew by the 1878 Treaty of San Stefano and declared independent in 1909, currently led by Petar Stoyanov from the capital at Sofia.

answer: Bulgaria

22. The title was taken from a painting by Marc Chagall which depicts an oval-eyed violinist dangling in space over a peasant village, a painting which also influenced the scenery. The circle was used as an important symbol, becoming the basis of the wedding celebration, "To Life," the Bottle Dance and "Tradition." For 10 points--name this 1961 musical, the setting of three of Sholem Aleichem's Tevye stories.

answer: Fiddler on the Roof

Technophobia 4: Massive Quizbowl Overdose Caltech Packet Full of Kryptonite: Bonuses

1. Speaking of the Tower of Babel, identify the following for 10 points each:

A. This Flemish artist did two paintings of *The Tower of Babel*, one dated 1563 and the other undated.

answer: Pieter Breugel the Elder

B. This Russian composer and pianist wrote the oratorio *Der Turm zu Babel* or *The Tower of Babel* in 1870.

answer: Anton Grigoryevich Rubinstein

C. This Booker-Prize-winning English writer wrote the novel *Babel Tower* in 1996.

answer: A. S. Byatt

2. A recent historical work has added to the controversy surrounding the Catholic Church's failure to condemn Nazi anti-Semitism and the "Final Solution."

A. For 10 points, who served as pope during this period, reigning from 1939-1958?

answer: Pius XII or Eugenio (Maria Giuseppe Giovanni) Pacelli

B. For 10 points, give the provocative title of the book subtitled *The Secret History of Pius XII*, which argues that Pius XII ignored the plight of the Jews to strengthen the power of his own Papacy.

answer: Hitler's Pope

C. For a final 10 points, name the Catholic historian who wrote *Hitler's Pope*.

answer: John Cornwell

[moderator note: Adding to the controversy is the expectation that Pope John Paul II, citing "the wisdom of Pope Pius XII's diplomacy," intends to promote him to sainthood.]

3. Given the lines which follow the first lines of these Walt Whitman poems, give the well-known first line for 10 points each:

A. ...I mark'd, where, on a little promontory, it stood, isolated;/ Mark'd how, to explore the vacant, vast surrounding,/ It launch'd forth filament, filament, filament, out of itself;/ Ever unreeling them--ever tirelessly speeding them.

answer: A noiseless, patient spider

B. ...The armies of those I love engirth me, and I engirth them;/ They will not let me off till I go with them, respond to them,/ And disconcert them, and charge them full with the charge of the Soul.

answer: I sing the Body electric

C. ...And the great star early droop'd in the western sky in the night,/ I mourn'd--and yet shall mourn with ever-returning spring.

answer: When lilacs last in the door-yard bloomed

4. Identify the following thermodynamic state functions for 10 points each.

A. During a reversible isobaric change in volume, the change in this state function is exactly equal to the heat transferred to the system.

answer: enthalpy

B. During a reversible isothermal, isochoric process, the change in this state function is equal to the work done by the process.

answer: Helmholtz free energy

C. Any spontaneous isothermal, isobaric process is accompanied by a decrease in this state function.

answer: Gibbs free energy

5. Zebras and the men in blue just don't get enough respect.

A. The umpiring crew for the 1999 World Series consisted of six men, who rotated at different positions during the Yankees' 4-game sweep of the Braves. For 15 points, name any one of these six umpires.

answer: Derryl Cousins, Gerry Davis, Jim Joyce, Randy Marsh, Steve Ripley, Rocky Roe

B. NBA basketball games are officiated by 3-man crews. For 15 points, name any one of the eleven men who officiated during the course of the Spurs' 4-1 victory over the Knicks in the 1999 NBA Finals.

answer: Dick Bavetta, Danny Crawford, Joe Crawford, Hugh Evans, Ron Garretson, Hue Hollins, Steve Javie, Jess Kersey, Mike Mathis, Ronnie Nunn, Bennett Salvatore

6. A small settlement in the principality of Rostov-Suzdal, it eventually became the dominant political unit of northeastern Russia. For 10 points each:

A. Name this grand principality whose rulers held the title of Grand Prince of Vladimir.

answer: Muscovy (accept Moscow)

B. In the 13th century, Muscovy became a distinct principality under Prince Daniel, the son of this Rurik leader.

answer: Alexander Nevsky

C. The military conquests of this prince, who ruled Muscovy from 1462 to 1505, completed the unification of the Russian lands, making the prince of Muscovy the ruler of Russia proper.

answer: Ivan III or Ivan Vasilyevich or Ivan the Great

7. Ernest Hemingway wrote *Islands in the Stream*. Identify these islands located in streams for 10 points each:

A. This island in the Susquehanna River near Harrisburg, Pennsylvania was the site of a 1979 disaster.

answer: Three Mile Island

B. This island in the Gambia River, named for a British colonial governor, contains the port of Georgetown and is a major producer of peanuts.

answer: MacCarthy Island

C. Eight bridges, including the Pont Neuf, link this island, the home of Notre-Dame de Paris, to the banks of the Seine.

answer: Île de la Cité

8. Identify these peoples or cities of the past, on a 10-5 basis:

A. (10) Their name means "wolf", but the Dutch and English also referred to these people as the River Indians. A subset of them were later known as the Stockbridge Indians.

(5) This was the native tribe of Uncas.

answer: Mohicans or Mahican

B. (10) These barbarians were driven out of southern Russia into Anatolia by the Scythians around 700 BC. Classical writers often confused them with the Scythians. They reached their peak after seizing Sardis, the capital of Lydia, in 652 BC.

(5) This was the native tribe of Conan the Barbarian.

answer: Cimmerians

C. (10) This colony of Athens, a strategically important city on the Strymon River, controlled the route from northern Greece to the Hellespont. Thucydides' military career was ruined because he lost this city to the Spartans. Later, the Romans would use it as their seat of government in Macedonia.

(5) This is the home town of Xena, warrior princess.

answer: Amphipolis

9. Identify these American Romantic paintings from descriptions for 10 points each, 5 if you need the artist:

A. (10) This 1836 series of five huge canvases is an allegory on the progress of mankind based on a work of the Count de Volney. The series begins with *The Savage State* and ends with *Desolation*.

(5) Thomas Cole

answer: The Course of Empire

B. (10) This 1771 painting depicts fourteen people watching a tragic 1759 occurrence under a dark Canadian sky.

(5) Benjamin West

answer: The Death of General Wolfe

A. (10) Depicted in a boat in this 1845 painting are a French Canadian, his son, and a tethered bear cub.

(5) George Caleb Bingham

answer: Fur Traders Descending the Missouri

10. Answer the following about financial deregulation.

A. For 10 points--name the law, passed in 1933, which prohibited banks, investment banks, and insurance companies from entering each other's business. Congress has agreed to repeal this law in 1999.

answer: Glass-Steagall act

B. Arguably the Glass-Steagall act was being largely bypassed anyway. Last year a bank which is the world's largest issuer of credit cards merged with an insurance and investment firm in a \$140 billion merger to produce a monster financial company. Name the two companies which merged, and the new unified company for 5 points each.

answer: Citicorp (accept Citibank), Travelers Group; the unified company is Citigroup

C. After the merger, Citigroup had two chairmen and CEOs, John Reed and Sandy Weill. For a final 5 points--they have recently hired what former U.S. treasury secretary as a third chairman?

answer: Robert Rubin

11. Answer the following about powers of numbers for 10 points each--

A. For 10 points--this theorem states that there are no natural numbers x , y and z such that $x^n + y^n = z^n$ where n is a natural number greater than 2.

answer: Fermat's Last Theorem (prompt on Fermat's Theorem, and do not accept Fermat's Little Theorem)

B. Fermat also conjectured, and Lagrange proved in 1770, that every natural number can be expressed as the sum of how many squares?

answer: Four (4)

C. In 1909, this German geometer proved the general case of Lagrange's Four Square Theorem, that for each positive integer exponent n there is an integer g such that every integer is a sum of at most g non-negative n th powers.

answer: David Hilbert

12. A comprehensive and statistically sophisticated study analyzing the effects of affirmative action at 28 selective American colleges and universities was published in 1998.

A. For 10 points, name this book which defends the use of racial preferences in university admissions.

answer: *The Shape of the River*

B. For 5 points each, name the authors of *The Shape of the River*, former presidents of Princeton and Harvard.

answer: William G. Bowen and Derek Bok

C. The title refers to the need to know the whole shape of the river in order to navigate it. This phrase comes from, for 10 points, what work by Mark Twain?

answer: *Life on the Mississippi*

13. Answer the following about the career of Luigi Illica for 10 points each:

A. Illica is best known for his work as a librettist for this composer's operas, which include *Edgar* and *Turandot*.

answer: Giacomo Puccini

B. Illica collaborated with Giuseppe Giacosa on the libretto for this 1896 Puccini creation, whose first act features the arias "Che gelida manina" and "Mi chiaro Mimi."

answer: *La Boheme*

C. In 1900, Illica and Giacosa met again, working on this Puccini opera whose title character commits suicide after her lover, Mario Cavaradossi, is killed by Scarpia.

answer: *Tosca*

14. This bonus will be easier if you have seen an episode of the '60s cult television program, "The Prisoner." The opening sequence of each episode of "The Prisoner" began with a question-and-answer dialogue

between the Prisoner and his interrogator. Given a question from the Prisoner, give the appropriate reply from his nemesis. Five points per correct answer, and a bonus 5 for all correct.

A. Where am I?

answer: In the Village.

B. What do you want?

answer: Information.

C. Whose side are you on?

answer: That would be telling.

D. Who are you?

answer: I am Number Two. (accept: I am the new Number Two.)

E. Who is Number One?

answer: You are Number Six.

15. To make up for the fact that they were overlooked by Alfred Nobel, some academic societies have established their own awards. Identify these for 10 points each.

A. This award, established by and named for a University of Toronto professor, is made every four years to mathematicians under the age of 40.

answer: Fields Medal

B. This prize in theoretical computer science or "mathematical aspects of information science" is financed by the University of Helsinki and was most recently won in 1998 by Peter Shor.

answer: Rolf Nevanlinna Prize

C. Administered by the University of Southern California, this is the premier award honoring achievements in environmental science and environmental protection.

answer: Tyler Prize

16. Identify these paleontologists who made important discoveries, for 10 points each.

A. His team discovered hominid fossil remains at Olduvai Gorge, Tanzania, which he named *Homo habilis*.

answer: Louis Leakey

B. This anthropologist found many specimens of *Homo habilis* as well as *Homo erectus* at Lake Turkana in northwestern Kenya.

answer: Richard Leakey

C. In 1924, at a time when the conventional wisdom was that humans arose out of Asia, this anthropologist discovered the fossil at Taung, South Africa, which he named *Australopithecus africanus*.

answer: Raymond A. Dart

17. Over a 10-year period, the U.S. Treasury Department is issuing commemorative quarters for each state, in the order in which they joined the Union. Identify these states from their quarters, for 10 points each. If you've got 'em in your pocket, that's fair game!

A. This state's design is based on Emmanuel Leutze's *Washington Crossing the Delaware*, and contains the slogan "Crossroads of the Revolution."

answer: New Jersey

B. This state's design shows Caesar Rodney riding his horse to break the tie among his state's delegates in favor of the Declaration of Independence. Rodney later became a general in the Revolutionary War.

answer: Delaware

C. This state's design depicts *Commonwealth*, a bronze statue of an allegorical female figure that stands atop the state capitol dome, an outline of the state, and the state motto, "Virtue, Liberty, Independence."

answer: Pennsylvania

18. Answer the following about the thyroid for 10 points each:

A. The raw materials necessary to form thyroid hormone are a Group VIIA element and an essential amino acid also abundant in the hormone insulin, both of which must be found in a person's diet. For 5 points each, name them.

answer: iodine and tyrosine

B. The thyroid's functions are stimulated by, of all things, thyroid-stimulating hormone, which is released from the anterior lobe of this endocrine gland.

answer: pituitary gland or hypophysis

C. The most common type of hyperthyroidism is this disease, whose symptoms include goiter, tachycardia and protrusion of the eyeballs.

answer: Graves' disease

19. Identify the following spices used in Indian cooking for 10 points each:

A. The seeds and pods of this member of the ginger family are the third most expensive spice after saffron and vanilla. They flavour Scandinavian baked goods and a coffee popular in the Middle East as well as curries.

answer: cardamom

B. Occasionally eaten as a pickled vegetable, the bright yellow rhizomes of this plant, also related to ginger, can be used as a dye as well as a bitter flavouring for mustard and curry powders.

answer: turmeric

C. Also known as jeera, the black seeds of this plant related to the carrot are seldom used, while the white seeds are most important. Both types of seed are really tiny fruits: thin, elongated ovals one quarter inch long with five prominent longitudinal ridges.

answer: cumin

20. Identify these radical factions from the time of the English Civil War for 10 points each:

A. Led by John Lilburne, among others, these crazed lunatics believed that all men should be equal under the law and that government derived its authority from the consent of the governed. Their name was coined by their enemies to falsely suggest that they favored the redistribution of wealth.

answer: Levellers

B. Sometimes called True Levellers, this faction led by Gerrard Winstanley really did favor the redistribution of wealth, specifically the redistribution of land to poor farmers. As their name suggests, they seized public lands and cultivated them.

answer: Diggers

C. This extreme Puritan sect led by Thomas Harrison and others believed that the fall of Charles I would bring about the reign of Christ on Earth. The kingdom of Christ would thus follow the Assyrian, Persian, Greek, and Roman monarchies.

answer: Fifth Monarchy Men

21. Identify these works from Russian literature for 10 points each:

A. In this short story by Ivan Turgenev, a mute serf, Gerasim, finds companionship in a puppy he rescues from a river. His mistress orders him to get rid of the dog, but rather than giving her up, he drowns the dog in the river and moves to the country.

answer: "Mumu"

B. Nikolay Gogol's story contrasting two unlucky friends pursuing different women is set at this titular place, which Gogol animates with dark undertones.

answer: "Nevsky Prospect"

C. This novel by Mikhail Lermontov details the adventures of Pechorin, a truly bad man, who is the titular character.

answer: A Hero of Our Time

22. Identify the authors of these morbidly titled works, for 5 points each and a bonus of 5 points for all correct.

A. *The House of the Dead* (1861-2)

answer: Fyodor Dostoyevsky

B. *The Death of Ivan Ilyitch* (1886)

answer: Leo Tolstoy

C. *Death Comes for the Archbishop* (1927)

answer: Willa Cather

D. *The Death of Artemio Cruz* (1962)

answer: Carlos Fuentes

E. *The Year of the Death of Ricardo Reis* (1984)

answer: José Saramago