

## 2003 MASER

### Round 13

#### Toss-up Questions

1. Their 1992 album *Break Like the Wind* featured tracks such as *Rainy Day Sun*, *The Majesty of Rock*, and *Bitch School*. They had a number of drummers die mysterious deaths, including Peter "James" Bond, who spontaneously combusted on stage, and Eric "Stumpy Joe" Childs, who choked to death on someone else's vomit. FTP, name this imaginary rock band whose exploits were chronicled in a 1984 mockumentary by Rob Reiner.

Spinal Tap

2. The background shows the city gates, out of which comes a single file line of people who are walking towards their fate at Principe Pio Hill. A Christ-like figure in a white shirt with outstretched arms who is awaiting his death at the hands of faceless French executioners is this work's central image and the alternate name of this work is *The Execution of the Defenders of Madrid*. FTP, name this anti-war work of Francisco Goya that shows how nasty the French can be.

The Shootings of the Third of May, 1808

(Accept *Execution of the Defenders of Madrid* before the word "Execution" is read.)

3. The incident grew out of an offer by Colorado Territorial officers for amnesty to native Americans if they reported to Army forts. A group of Cheyennes and Arapahos led by Black Kettle believed themselves to be protected and established a winter camp near Fort Lyon. Although the camp flew an American and white flag, Colonel John Chivington attacked the camp and massacred 200 Indians, 2/3 of them women and children. FTP, this 1864 massacre.

Sand Creek Massacre

4. The founder of this school of philosophy coined the term sociology and it accepts a theory of social evolution known as the law of the three stages. The first stage was theological, in which phenomena were attributed to supernatural forces. The metaphysical stage attributed phenomena to fundamental energies or ideas. The final stage, which shares its name with this philosophical school, holds that phenomena are explained by observation, hypotheses, and experimentation. Formulated by Auguste Comte in the 1830s, FTP, name this school of philosophy summarized in his *The Course of Positive Philosophy*.

Positivism

5. Defined solely by temperature, not composition, its formation can be prevented by overlying glaciers and rivers, while the relict variety exists in areas now unsuitable for its creation. Reaching 5000 feet at its deepest and covering about 25% of Earth's surface, most now present developed less than 90,000 years ago and has been carbon-14 dated through animal deposits within it. Usually near the melting point, its active layer is highest and always thaws in summer. FTP, name this type of perennially frozen ground seen at high latitudes.

Permafrost

6. He wrote plays such as Baal, Saint Joan of the Stockyards, and The Measures before being forced to flee Germany for his anti-Nazi views. He grew disenchanted with the United States after being forced to appear before the House Committee on Un-American Activities and fled to East Germany, where he directed the state supported Berliner Ensemble. FTP, name this Communist playwright famous for his anti-war classic, Mother Courage and Her Children, and his modern day version of John Gay's Beggar's Opera, the Threepenny Opera.

Bertolt Brecht

7. Doctor Mandelet suspects that the main character of this novel is having an affair, but does not tell that character's husband, Leonce. The main character eventually does have an affair with the local gigolo, Alcee Arobin, but Alcee cannot satisfy the main character's longing for Robert Lebrun, a man she met on vacation in Grand Isle. FTP, Edna Pontellier is the main character in what most famous work of Kate Chopin?

The Awakening

8. In 1949, he headed the United Nations commission in the dispute over Kashmir. Born in Fredericksburg, Texas, he served as Chief of Staff to the Commander of the Atlantic Fleet Submarine Force during World War I and this experience led him to champion unrestricted submarine warfare against the Japanese merchant marine during World War II. FTP, name the man who was appointed Commander in Chief, US Pacific Fleet on Dec 31, 1941 and served as official representative of the United States at the Japanese surrender on the U.S.S. Missouri.

Chester Nimitz

9. Limestone and dolomite formed when it boils can create harmful coatings and its ill effects are now eased by ion exchange, in which a sodium ion replaces another. It makes life difficult because inorganic elements react with water's hydrophilic ends to make waxy, white curds which form soap scum. It is made when carbon dioxide picked up from the air forms carbonic acid that dissolves minerals containing iron, magnesium and calcium. FTP, name this type of H<sub>2</sub>O filled with dissolved minerals.

Hard Water

10. Her second play, The Sign in Sidney Brunstein's Window, was much less successful than her first play, which was based in part on her father's victory in an anti-segregation suit before the Illinois Supreme Court. Under WEB Dubois, she wrote a research paper entitled The Belgian Congo and she had the writing collection To Be Young, Gifted, and Black published posthumously in 1969. FTP name this playwright who wrote A Raisin in the Sun.

Lorraine Hansberry

11. During his time as a professor at East India Company College in Hertfordshire, he developed a theory of demand-supply mismatches called gluts that was ridiculed at the time but was later confirmed by the Great Depression. He believed that famine and poverty were natural outcomes that were God's way of keeping man from being immoral and lazy. FTP name this economist and clergyman who formulated the idea of the geometric growth of population outstripping the arithmetic growth of food in his Essay on Population.  
Thomas Malthus

12. After its chief character has an affair with Madame de Renal, his mentor Father Chelan sends him to a seminary. The hero then moves to Paris and becomes the personal secretary to the Marquis de la Mole, and has an affair with the Marquis' daughter. At the novel's end, Madame de Renal exposes the main character as a womanizer, the main character shoots Madame de Renal and is executed. Julien Sorel is the main character of, FTP, what most famous work of Stendhal?  
The Red and the Black

13. This musical group was ironically born after the suicide of Joy Division's vocalist Ian Curtis on the eve of that group's first American tour. The remaining band members, Bernard Sumner, Peter Hook, Stephen Morris, and Gilliam Gilbert, formed this group and released their first album, Movement. FTP, name this band whose synth-pop sounds of the 1980s produced albums such as Power, Corruption, and Lies and singles such as Bizarre Love Triangle and Blue Monday.  
New Order

14. Mass electrocutions by cables planted in swamps and possible use of nerve gas contributed to the deaths of over a million soldiers and wounding of almost two million more. It grew out of an attempt of one of the belligerents to seize the oil-rich Khuzistan region and to secure the strategic Shaat-al-Arab waterway, and the "final offensives" in this conflict were a series of futile attempts to take the port of Basra. FTP name this bloody conflict fought from 1980 to 1988 that pitted the fanatical Shiite Islam philosophy of the Ayatollah Khomeini against the secular socialism of Saddam Hussein.  
Iran-Iraq War

15. Maurice Ravel claimed that this composer was "the only pupil who does not write my music". The only honor he accepted during his lifetime was the Order of Merit and he regularly conducted the Leith Hill Music Festival. His operas are not frequently performed and include Hugh the Drover and Pilgrim's Progress. FTP, name this British composer famous for his Fantasia on Greensleeves and Lark Ascending.  
Ralph Vaughan Williams

16. Protected on the outside by the serous coat, its body is divided into lesser

and greater curvatures. Able to absorb only 5% of water, but almost all alcohol and sugar, it connects to the duodenum at the pylorus, where its peristaltic movements are most intense. Although other parts of the alimentary tract have more important functions, the chyme it makes with water and gastric juices allows absorption in other organs. FTP, name this organ that receives food from the mouth and gives it to the small intestine.

Stomach

17. Many of his early works were published in the Newburyport Free Press, a publication edited by the abolitionist William Lloyd Garrison, and those works included Molly Pitcher and Legends of New England. After the Civil War, he fashioned himself as a common man's bard with works such as Songs of Labor. FTP, name this Quaker author of Snow Bound, Barbara Fritchie, and Maud Muller.

John Greenleaf Whittier

18. With the 1626 death of his wife, Isabella, he entered the diplomatic service, during which time he was knighted in England for his peacemaking efforts and met Diego Velasquez in Spain. During his final years, he married sixteen-year-old Helen Fourment in 1630 and painted numerous portraits of her, as well as the ceiling at Whitehall for Charles I. FTP name this Flemish artist noted for such works for the Spanish court as the Three Graces and religious works such as Descent from the Cross.

Peter Paul Rubens

19. Freeman Dyson showed that only it makes matter stable and stops any two macroscopic objects from exploding with tremendous force, a situation that still occurs at forces greater than 1 trillion gauss. It applies to all particles with half-integer spins and gives each atom a unique set of quantum numbers. Its most direct consequence is the fact that electrons must fill successively larger orbitals instead of all taking the lowest places. FTP, name this principle that says no two particles of identical type may occupy the same quantum state at one time.

Pauli Exclusion Principle

20. Preceded by the defeat of Duke Eudos, Christian sources say it lasted a week, but Muslims claimed it ended in two days. St. Denis made a chronicle of it stating 300,000 saracens were killed, as well as giving the Frankish leader his famous nickname. One of the few times medieval infantrymen held ground against cavalry, this battle ended when Abder Rahman was killed. FTP, name this 732 battle in France that saw Charles the Hammer stop the northern advance of Islam.

Battle of Tours or Poitiers

21. An andesite and dacite stratovolcano, it once rose to 7,550 feet and is surrounded by Cuadrado, Mataba and several other offshoots. The natural disaster it caused devastated Clark Air Force Base and forced its closure. It

launched over two cubic miles of ash which buried over 310 square miles and killed over 500 people. FTP name this volcano located on Luzon Island northwest of Manila, Philippines.

Mount Pinatubo

22. It was first described by Beau de Rochas in 1862, but a working device that used this was not built until fourteen years later. Its maximum efficiency is  $\eta = 1 - \frac{1}{\text{compression ratio}}$  to the power of  $\gamma - 1$ , which is much more efficient than the cycle used by Lenoir in his coal and gas engine. FTP, name this cycle that is also called the four-stroke cycle, developed by a German and used in nearly all internal combustion engines.

Otto Cycle

23. One nickname for this group was the Tractarians, in reference to member Edward Pusey's manifesto Tracts for the Times. One of its leaders, John Newman, was so vigorously attacked for his Catholic leanings that he eventually converted to Roman Catholicism. FTP, name this 19th century religious movement that sought to revitalize the Church of England by reintroducing traditional Catholic practices and shares its name with Great Britain's most famous university.

Oxford Movement

24. This legendary Egyptian king framed a just legal code for his country and persuaded his people to renounce cannibalism. He left Egypt to civilize the rest of the world and during his absence his evil, his red-ass pelt-haired brother, Set, plotted against him, suffocating him upon his return. FTP, name the husband of Isis whose son Horus killed Set.

Osiris

#### Bonus Questions

1. Answer these questions about the chemistry of cooking FTPE.

This term refers to the breaking down of sugar molecules above 338 degrees Fahrenheit to form a number of tasty substances.

Caramelization or Caramelize

This carbohydrate keeps cellulose fibers in place, but breaks down with cooking to make vegetables soft.

Pectin

This reaction occurs when a sugar's aldehyde group combines with a protein's nitrogen to form the characteristic flavor and color of cooked meat.

Maillard Reaction or Browning Reaction

2. Answer the following questions about a famous mock epic poem, FTPE:

This poem is based on the true story of Lord Petre, who cut off a bit of Arabella Fermer's hair, and was meant to ease tensions between the families.

The Rape of the Lock



Name the poet of Rape of the Lock.

Alexander Pope

She was the heroine of the Rape of the Lock, who shares her name with a former member of the Go Go's.

Belinda

3. Identify the following rivers of Europe given a description.

This is the longest river completely within the borders of Spain. Its hydroelectric power plants supply 50% of Spain's electricity and it empties into the Mediterranean below Tortosa.

Ebro River

Rising in the Etruscan Appenines, it flows through Tuscany down to Rome and empties into the Tyrrhenian Sea.

Tiber River

Starting at the Czech-Polish border, it enters the North Sea near Cuxhaven after flowing past Hamburg.

Elbe River

4. John Vernon is one of the great character actor talents of the last 50 years.

Given the name of a character he played and a brief description of that character, name the movie that Vernon was in FSNOF.

5-Vernon's most famous role came as Vernon Wormer, the crusty dean of Faber College who put the Delta Fraternity on Double Secret Probation in this movie.

Animal House

10-Vernon played Mr. Big, a crimelord who was fought by Blacksploitation actor John Slade in this 1988 film directed by Keenan Ivory Wayans.

I'm Gonna Git You Sucka

15-Vernon's character, the greedy developer Sherman Krader, tricked the titular character into selling sacred Indian land in this 1987 vehicle directed by John Cherry.

Ernest Goes to Camp

5. Identify the following speakers of the US House of Representatives given some clues, FTPE.

This Pennsylvanian was the first Speaker of the House.

Frederick Muhlenberg

He served as speaker from 1835-1839 before becoming president.

James K. Polk

This Tennesseean served as speaker from 1834-35 before running for president on the Constitutional Ticket in '60.

John Bell

6. Answer these related questions from optics FTPE.

This is any optical defect that produces distortion or other flaws in an image.

Aberration

This sort of aberration is seen in single lenses and causes images to be marred

by colored fringes when dispersion separates some wavelengths of light.

Chromatic Aberration

Corrected by reducing aperture size with stops, this happens to rays distant from the axis and causes two images and a blurry area to form.

Astigmatism

7. Identify the following Mark Twain works given a description, FSNP.

5-In this novel, a blow to the head sends Hartford arms factory worker Hank Morgan to medieval times.

A Connecticut Yankee in King Arthur's Court

10-In this novel centered around a switch at birth, the titular character defends Luigi against a murder charge and proves that a mulatto was the true culprit.

The Tragedy of Pud'nhead Wilson

15-In this story, an Austrian boy meets Satan disguised as a nice man named Phillip Traum. Traum convinces the boy that it's okay to kill a cripple.

The Mysterious Stranger

8. Identify the following branches of Buddhism from clues, FTPE.

Called "greater vehicle," It holds that all things are empty and that bodhisattvas vow to stay in the samsara cycle until all beings are enlightened.

Mahayana Buddhism

This branch of Buddhism is derisively called Hinayana, or lesser vehicle. It teaches that the only way to break the cycle of Samsara is to devote oneself to a life of meditation and monasticism.

Theravada

This branch of Mahayana Buddhism is famous its koans, or paradoxes, and is particularly popular in Japan and Vietnam.

Zen Buddhism

9. Identify the following Roman Wars, FTPE

Sulla defeated the leader of the Numidians in this 111-106 BC war in North Africa.

Jugurthan War

In this war, Hamilcar Barca conquered Spain, but lost to the Romans in Sicily.

First Punic War

The fight with these people and their Etruscan and Gaulish allies was their last chance at mastery of Italy and ended with Rome's 295 BC victory at Sentium.

Third Samnite War

10. Identify the following pop historians given some clues, FTPE.

His reputation came into question towards the end of his life, as he was accused of plagiarism, but his Band of Brothers, Undaunted Courage and Citizen Soldiers enjoyed phenomenal success.

Stephen Ambrose

She came to the attention of Lyndon Johnson when she wrote a very critical article about him in the New Republic. She won the Pulitzer Prize for her

biography of Franklin and Eleanor Roosevelt called No Ordinary Time.

Doris Kearns-Goodwin

This Greenville, Mississippi native gained much of his fame for his appearances on a Ken Burns documentary, The Civil War. His works include Shiloh, as well as a three-volume history of the Civil War.

Shelby Foote

11. Identify the following 20th century plays from characters, FTPE.

Vladimir, Estragon, Pozzo, Lucky

Waiting for Godot

Big Daddy Pollitt, Maggie the Cat

Cat on a Hot Tin Roof

Leonid Andreyitch Gayef, Madame Ranevsky, Yemily Lopakhin

The Cherry Orchard

12. Answer the following about jazz music FTPE.

Songs on this album include "So what," "Freddie Freeloader," and "Blue in Green." While this is a Miles Davis album, it includes help from John Coltrane and Cannonball Adderley.

Kind of Blue

This jazz pianist has led his quartet to fame with such tunes as Take Five and Blue Rondo a la Turk.

Dave Brubeck

This big band leader had a million-selling hit in "Chattanooga Choo Choo," a song from his movie Sun Valley Serenade. He disappeared during his service in the Army Air Corps in 1944.

Glenn Miller

13. Identify the following Roman men of letters, FTPE.

This lyrical poet is known for his books of odes and his Ars Poetica.

Horace

His Metamorphoses is one of the best sources of classical myth. He is also known for his collections of erotic advice, The Art of Love.

Ovid

Although his works often lacked objectivity and accuracy, his History of Rome is, at the very least, great literature.

Titus Livius or Livy

14. Identify the following spacecraft, FTPE.

Alan Shepard became the first American in space when he piloted this phat ride.

Mercury I

John Glenn piloted this craft when he became the first man to orbit the earth.

Friendship 7

This space station was the site of many scientific experiments from its 1973 launch until its 1979 plunge to Earth.

Skylab



15. Answer these questions about modern Chinese history, FTPE.

This radical group implemented the harsh policies of Mao during the Cultural Revolution and included Wang Hongwen, Zhang Chunqiao, Yao Wenyuan, and Jiang Qing.

Gang of Four

Besides her membership in the Gang of Four, Jiang Qing was famous for being this man's wife.

Mao Zedong

Over 50,000 soldiers of the Red Army died during this 6,000 mile trek of 1934-35 that broke the siege of the Kuomintang.

Long March

16. Answer the following questions about an influential and controversial modern art exhibition, FTPE.

Its official name was the International Exhibition of Modern Art and artists displayed included George Whistler, George Bellows, Mary Cassatt, and Edward Hopper.

Armory Show

Perhaps the most controversial, hated, and celebrated work displayed at the Armory Show was Nude Descending a Staircase. Name its painter.

Marcel Duchamp

George Bellows, Robert Henri, William Glackens, and Arthur Davies were members of this New York group active in the Armory Show. It was given this nickname for insistence on portraying common aspects of American life.

Ashcan School (Prompt on The Eight.)

17. 5-10-15, answer these questions about an animal phylum.

5-Named for their "spine-skin," the 6000 species of this phylum include sea stars, sea cucumbers and sea urchins.

Echinoderms or Echinodermata

10-Echinoderms all display this type of symmetry as adults and it seems to prevent their formation of a centralized nervous system.

Radial

15-The water vascular system used for movement by echinoderms depends on this muscular sac, which causes feet to alternately fill with water and empty.

Ampulla

18. Answer the following questions about a philosophical school FTPE:.

It stressed the use of reason to deepen understanding of religion. Philosophers associated with this school include Peter Lombard and St. Anselm.

Scholasticism

Nicknamed the Dumb Ox, this Italian is considered to be the most influential of the Scholastics. In the 1879 encyclical Aeterni Patris, Pope Leo XIII declared his work to be the official belief system of the Roman Catholic Church.

Saint Thomas Aquinas

Thomas Aquinas is most famous for writing this massive work, an attempt to systematically present all Christian thought. He worked on it from 1266-1273 and died three months after its completion.

Summa Theologica

19. Identify the following classics of foreign cinema given clues, FTPE.

This 1925 masterpiece of Sergei Eisenstein captures the drama of an uprising of Russian sailors on the title vessel. It is perhaps most famous for its "Odessa Steps" scene.

Battleship Potemkin

This 1926 work of the German director Fritz Lang describes a city in which the spoiled citizens of the upper class live in luxury while a civilization of slaves labors in subterranean factories.

Metropolis

This 1954 film of Japanese director Akira Kurosawa inspired the United States to remake it as the Magnificent Seven.

The Seven Samurai

20. Answer these questions about tectonic movements FTPE.

This consumption of crusts takes place when they move from an area of seafloor spreading to sink into the asthenosphere at continental margins.

Subduction

This process occurs when crust at a subduction zone is stretched until it rifts and magma creates new seafloor, something happening off the coast of Japan.

Backarc Spreading

This area makes up the boundary between collided continents and the crust here is thick during collisions.

Suture Zone

21. Identify the following economists from works, FSNP.

10-The Economic Consequences of the Peace

5-The General Theory of Employment, Interest, and Money

John Maynard Keynes

10-Capitalism and Freedom

5-A Monetary History of the United States, 1867-1960, with Anna Schwartz

Milton Friedman

10-The Fatal Conceit: The Errors of Socialism

5-The Road to Serfdom

Friedrich Hayek

22. European politics are filled with spy scandals. Answer the following about two of the more famous scandals F15PE.

This British War Secretary created an embarrassment for his government when it was discovered that he gave away national security secrets to his mistress in his sleep.

John Profumo

This Jewish French army officer was arrested in 1894 and accused of spying for Germany. He was sent to Devil's Island before getting a second trial.

Alfred Dreyfuss

23. Answer the following questions about particle physics, FTPE.

This particle was discovered in 1932 and explained a problem of the theory of special relativity, which described electrons yielding 2 solutions for allowable energies.

Positron

This class of subatomic particles contains over 200 members and only one is stable. They are named from the Greek word for strong and include neutrons and protons.

Hadrons

This still-undiscovered particle has a quantum number of 2 and must have no mass, only energy.

Graviton

24. Identify the following authors of the Harlem Renaissance given some works, FTPE.

God's Trombones

James Weldon Johnson

The Weary Blues

Langston Hughes

The Shroud of Color

Countee Cullen