

## 2003 MASER

### Round 9

#### Toss-up Questions

1. It is made of mostly silicate rock and is characterized by orange lines on the surface. It orbits every 3.55 earth days and was discovered simultaneously in 1610 by Simon Marius and Galileo. The Galileo spacecraft indicated the presence of a magnetic field and possible life-containing ocean underneath the surface. FTP, name this sixth moon of Jupiter that is named for the lover of Jupiter who was seduced by a bull.

Europa

2. He once said that condoms were the greatest invention of the Industrial Revolution. Disliked for his essay "Common Sense About the War," he was a mentor to Mahfouz and portrayed a stubborn Joan of Arc and reasonable judges in Saint Joan. He wrote his most famous work for an actress and was a leading member of the Fabian Society. FTP, name this Irish-born playwright known for Man and Superman and Pygmalion.

George Bernard Shaw

3. This man met Teddy Roosevelt in 1903 and was chief of the Wallowan band along with Looking Glass. Called the "red Napoleon," his group defeated the army at Big Hole River in Montana, but was defeated by Nelson Miles just 30 miles from the Canadian border. FTP, name this chief of the Nez Perce who made the famous speech that stated he will fight no more.

Chief Joseph

4. His father made a fortune selling ornaments to the Union army, so his workshop's Atlas carries a clock stopped at 7:22, when Lincoln died. He decorated the Vanderbilt mansion, his own home, Laurelton Hall, and Chester Arthur's White House, where his mosaic sconces grace the Blue Room. Inventor of son et lumiere, his adaptation of opalescent glass to windows was the first stained glass innovation since medieval times. FTP, name this Art Nouveau craftsman who in 1906 took \$750 each for his vases and lamps.

Louis Comfort Tiffany

5. Before electronic devices appeared, they stopped too much current from flowing into fluorescent lights and tripping circuit breakers. Replaced by resistors and other devices on integrated circuits, they are present in power supplies to smooth out alternating current. Ferromagnetic substances make the best ones and those with donut-shaped cores can hold the most Henrys. FTP, name these devices based on Faraday's Laws that resist changes in current passing through their wires.

Inductors

6. Fireproofed with cast-iron floors, the winning entry in the contest to design it allowed easy circulation by different classes of users. The long-lost plans drawn up by A.W. Pugin added a central tower strictly for ventilation, a big problem in its 800-year-old predecessor. Done in Gothic style and fronting the Thames, its

great Clock Tower contains Big Ben. FTP, name this creation of Charles Barry that houses Britain's legislature.

The Houses of Parliament

7. Happy memories of fondling another girl's breasts and criticisms of her parents' marriage were omitted from the published version. It contains many outright fantasies and predicts divine punishment for her tormentors, as well as stating, "In spite of everything I still believe that people are really good at heart." The author's father edited it after his secretaries salvaged it from the floor of a "secret annex" in Amsterdam and published it in 1947. FTP, name this journal kept by a German Jew girl before she died in Bergen-Belsen.

The Diary of Anne Frank

8. Edward Everett painted portraits of the inside and its name comes from the Spanish word for poplar. In 1995, diggers began searching for gold that had been thrown down a well here. Built in 1722, it was originally a Franciscan mission but fell on March 6, 1836 to Santa Anna. FTP, do what the battle cry says and remember this San Antonio landmark.

The Alamo

9. They are populous at Academy Bay and are able to shoot excess salt out of their nostrils. Known by the Latin name *Amblyrhynchus cristatus*, they spend most of their time clinging to sharp rocks and eating algae. Described as hideous by Darwin, they can remain underwater for as long as one hour. FTP, name these reptiles that inhabit the Galapagos Islands.

Ans: Marine Iguanas

10. Very hygroscopic, its hydrogen bonds prevent it from melting or dissolving in most liquids, so it proved impossible to directly convert to silk. Its reactions are similar to those of alcohols and Anselm Payen discovered its most important function in 1838. Produced by some bacteria, its name usually refers to the alpha variety that has been cleansed of simple sugars and carbohydrates. FTP, name this material formed from repeating D-glucose molecules that makes up plant cell walls.

Cellulose

11. Pastoral in setting, its first movement alternates tragic and peaceful melodies, while the second movement features two serene tunes first done by violins. Discovered half a century after the composer's death, its finding set Arthur Sullivan on the trail of Rosamunde and other works. Its creator lived six years after working on it and sketched more than 100 measures for a third-movement scherzo, but never even started the fourth. FTP, name this incomplete eighth symphony of Franz Schubert.

Unfinished Symphony (Accept Schubert's Eighth Symphony in B Minor on an early buzz.)

12. One outgrowth of it is computer-based training, in which a machine gives immediate feedback based on responses, and its principles are also used to treat phobias and alcoholism. Emphasizing reproducible lab results over untestable mental theories, its origins lie in Pavlov's work in reflex conditioning. FTP, name this type of psychology positing an organism's actions to be determined by interaction with the environment, founded by John B. Watson and popularized by B. F. Skinner.

Behaviorism

13. The son of the earl of Guilford, this man served as an apprentice to a lower official in the treasury and eventually became chancellor of the exchequer after the death of Townshend. Although he had no close ties to any political party, he became first lord of the treasury in 1770. As prime minister, he passed the Coercive Acts and the Tea Act. FTP, name this British prime minister who lost the American colonies.

Lord Frederick North

14. Comedy is described as good in the object of the search, the second volume of Aristotle's Poetics, something so dangerous to the church that murders are committed to keep it secret. The hero is a logical Englishman and his story is written fifty years after events by the Watson-like Adso. Planning to argue the Spiritualist case for Louis IV, William of Baskerville ends up doing detective work in a Benedictine monastery. FTP, name this Umberto Eco work.

The Name of the Rose or Il nome della rosa

15. She wrote her first song when she was eight years old and signed with a recording company at age 13. Her name means "woman full of grace" and reflects her Lebanese heritage. Unfortunately, she is currently engaged to the son of the former president of Argentina. She had great success with ¿Donde Están Los Ladrones? and won several awards. FTP, name this belly-dancing singer best known in the US for her album Laundry Service.

Shakira

16. It was originally said to have been written by James Upham but the Library of Congress later ruled that Francis Bellamy was the true author. It first appeared in the Youth's Companion and Jehovah's Witnesses have argued that they are not allowed to say this. The original version called for equality along with liberty and justice and the Knights of Columbus had "under God" added. FTP, name this pledge that many children say at school each morning.

Pledge of Allegiance

17. He got his nickname from an attempt to avoid being hit by friendly fire. A lover of risks, he climbed a church to tie a handkerchief to the lightning rod as a child. He first signed up as an observer because it would get him into combat soonest and made his first kill in that role. Becoming a pilot in 1916, he was shot down by Roy Brown after recording 80 kills during WWI. FTP, name this German

WWI fighter pilot known as the Red Baron.

Manfred Von Richthofen (Accept the Red Baron before it is mentioned.)

18. His hall was Breidablik and he had the longest ship in the world, called Ringhorn. His wife was Nanna and she died of a broken heart after he was killed by his twin brother, something that happened although his mother believed that everything had promised not to hurt him. FTP, name this Norse god of light, purity, innocence, and beauty who was killed by mistletoe indirectly launched at him by Loki.

Balder

19. The Moriscos were expelled from this city in 1609 and Vicente Blasco Ibáñez set his works here. In the spring, a festival called Las Fallas, where giant wooden monuments are burned, is held. It was the capital of Spain during the Spanish Civil War and is on the Río Turia. Found on the Mediterranean, its great cathedral holds the chalice used at the Last Supper. FTP, name this Spanish city across from the Balearic Islands, known for its oranges.

Valencia

20. He was murdered by his two sons and his father was Sargon II. His conquest of Lachish is inscribed on the walls of his palace and he defeated the Egyptians at Eltekeh and, at the battle of Halulina, fought both the Elamites and the Chaldaeans. He took forty-seven towns in Judah before being sent tribute money by Hezekiah as an instrument of God's will. FTP, name this Assyrian king who attacked Judah and is mentioned in Isaiah 36 and 37.

Sennacherib

21. Most of the fossils of this dinosaur were destroyed in Munich during WWII. Its vertebrae were 3 to 4 centimeters longer than those of a tyrannosaurus. It measured over 40 feet long and lived in the late Cretaceous in North Africa where its identifying feature would have been useful. FTP, name this huge theropod named for the bones that supported a sail on its back.

Spinosaurus

22. This author joined the Red Cross and served in Alexandria in Egypt. A member of the Bloomsbury group and friend of Virginia Woolf, his first novel was published in 1905 and was entitled *Where Angels Fear to Tread*. His trips to Italy with his mother partly inspired *A Room With a View*. FTP, name this British author best known for *Howards End* and *A Passage To India*.

Edward M. Forster

23. Joe Welling is a man with uncontrollable seizures of speech who gains respect by forming a baseball club in this novel. Irving Howe is featured in the introduction and a reporter named George Willard is the hero who lets people vent their frustration in the title location. FTP, name this collection of stories by Sherwood Anderson.

Winesburg, Ohio

24. Marcel embraced this philosophic term at first, but later rejected it. Pascal may have been the forerunner of this philosophy as he questioned rationalism. Although a feminist, Simone de Beauvoir called herself this. This philosophy was created by Kierkegaard and featured in the writings of Dostoyevsky. FTP, name this philosophy of Camus that emphasizes individual freedom and choices.  
Existentialism

Bonus Questions

1. Name the constellation from the brightest star in it FTP. You receive 5 if you need a description or an English name.

10-Aldebaran

5-The Bull

Ans: Taurus

10-Spica

5-The Maiden

Virgo

10-Alpha Crucis

5-It appears on the Australian flag.

Southern Cross

2. Answer the following about Sparta FTPE.

This was the semi-legendary lawgiver who is credited with creating the Spartan political system.

Lycurgus

This was the name given to slaves who were Dorian Greeks.

Helots

This was the Spartan king who fought the Persians at Thermopylae.

Leonidas

3. 5-10-15, identify these Igor Stravinsky works from clues.

5-It made Stravinsky famous although Anna Pavlova refused to dance in it. The title creature advises Ivan to kill Kastchei by releasing Death from an egg.

The Fire-Bird or L'Oiseau De Feu

10-Its libretto by W. H. Auden and Chester Kallman is based on Hogarth drawings. The title character, Tom, makes an ass of himself, but saves his soul from Shadow.

The Rake's Progress

15-This contrapuntal concerto has a gentle middle movement contrasting with robust endpieces. It was done years before an international meeting was held at the patron's home.

Dumbarton Oaks Concerto or Concerto in E-flat Major

4. Answer these questions about muscles FTPE.

Cesar Pelli

18. 30-20-10, name the person.

30-He was named for a Mexican president and proposed to his wife by waving a gun and threatening her with a murder-suicide.

20-He edited the newspaper Avanti and set up a corporate economy once in power.

10-He was fascist dictator of Italy and created Vatican City along with Pope Pius XI.

Benito Mussolini

19. Name the philosophers from works FTPE.

Why I Am Not a Christian, The Problems of Philosophy

Bertrand Russell

The World as Will and Representation, The Basis of Morality

Arthur Schopenhauer

The Social Contract, Discourse on the Origin and Foundation of Inequality Among Mankind

Jean-Jacque Rousseau

20. Name the economist from clues, 30-20-10.

30-Attending a Lutheran college, he converted the college president's daughter to agnosticism and wrote A Plea for Cannibalism, in which he suggested an unusual way to convert heathens.

20-In his Theory of Business Enterprise, he suggested that money would be replaced with work units and a corps of engineers run the economy.

10-He created the phrase "conspicuous consumption" and wrote Theory of the Leisure Class.

Ans: Thorstein B. Veblen

21. Answer these related questions from physics FTPE.

Found by taking half the product of mass and the square of velocity, this is energy of motion.

Kinetic Energy

This represents the kinetic energy gained by a negatively charged particle moving through a potential difference of  $1.6 \times 10^{-19}$  Joules.

Electron Volt

This is the standard unit of energy in particle physics. It is equal to the mass-energy of a proton or neutron at rest, or a billion electron volts.

Giga Electron Volt or GeV

22. Identify the following scientists who made discoveries in genetics FTPE.

10 for both-This pair won a Nobel for their discovery of the double-helix strand in 1953.

Francis Crick and James Watson

This man won a Nobel prize in Physiology for her discovery of "jumping genes."

Barbara McClintock

This monk discovered the roles of dominant and recessive genes.

Gregor Mendel

23. Name the person given their lover or person they pined for FTPE.

Dante

Beatrice

Peter Abelard

Heloise

Henry II and Louis VII

Eleanor of Acquitane

24. Name the Russian author from works FTPE. You get 5 if you need an easier clue.

10-Pale Fire

5-Lolita

Vladimir Nabokov

10-House of the Dead

5-The Brothers Karamazov

Fyodor Dostoyevsky

10-Father Sergius

5-The Kreutzer Sonata

Leo Tolstoy

Although smooth muscles are occasionally under voluntary control, the contraction of these muscles is always voluntary.

Skeletal or Striated Muscles

This is a muscle's smallest contractile unit. The colors of its proteins give rise to the striated appearance of skeletal muscle.

Sarcomere

Making up white meat in a box of chicken, these muscle fibers contract quickly and tire easily. They don't require oxygen, so good sprinters have lots of them.

Fast Twitch Muscle Fibers

5. Given sentences, identify the tenses of the verbs FTPE.

I love dandelions.

Simple Present

I will pick dandelions tomorrow.

Future

Tomorrow night I will have gotten drunk on dandelion wine.

Future Perfect

6. Answer the following about the Kennedy Assassination FTPE.

This is the name of the famous film of the assassination and of the man who shot it.

Abraham Zapruder

This is the place in Dallas where the assassination occurred.

Dealey Plaza

This was the Texas governor who was shot along with JFK.

John B. Connally

7. Identify these painting methods from descriptions FTPE.

This term can apply to painting with any emulsion, even milk of figs; however, it usually means using egg yolk to bind pigments to canvas.

Tempera a l'oeuf

This method employs pigments in water applied to fresh plaster. The plaster provides the only white pigment and the paint becomes an integral part of it.

Buon Fresco

Perfected by the Greeks and used to create portraits of mummies, this durable technique of mixing pigment with hot wax was sometimes used by van Gogh.

Encaustic

8. Identify these groups on the periodic table from descriptions FTPE.

Made up of beryllium, barium, calcium and three others, it has silver metals with a couple of valence electrons each.

Alkaline Earth Group or Metals or Group 2

Including Ruthenium, Osmium and Palladium, these metals are extremely durable, similar in structure and found together.

Platinum Group

Compounds with one of these five elements are salts. They all have -1 oxidation

numbers and include bromine and chlorine.

Halogens

9. Answer these questions about Oprah's Book Club FTPE.

This Toni Morrison selection tells of Pecola Breedlove's prayers to have the titular object and be happy like white Dick and Jane.

The Bluest Eye

This towering gay giant of the Book Club is author of two featured works, *She's Come Undone* and *I Know This Much Is True*.

Wally Lamb

This Jonathan Franzen work shows the slow implosion of the Lambert family, with Alfred growing senile and his children ruining their lives in various ways.

The Corrections

10. FTPE, name the people from the history of Latin America, none of which are Simon Bolivar.

This man was born in Argentina and served in the Spanish army. He defeated the Spanish at Chacabuco and became protector of Peru in 1821.

José Francisco de San Martín

He was a general of San Martín and became the director of Chile.

Bernardo O'Higgins

This man was a poet and fought to liberate Cuba. Author of "I Cultivate a White Rose," he died in an 1895 battle.

José Martí

11. Name the Australian state from clues FTPE.

Its capital is Perth and it is the largest Australian state in area.

Western Australia

Located in the Southeast, it is the most populous state and Sydney is the capital.

New South Wales

This royal state has an unicameral legislature and has its capital at Brisbane.

Queensland

12. Name the Hawthorne story FTPE.

This story is about a doctor whose attempts to remove a spot from his wife take her life.

The Birthmark

This story, which may reveal Hawthorne's feelings about women such as Margaret Fuller, is about a woman who is poisonous to others.

Rappacini's Daughter

This story is about a man who stumbles upon a Black Sabbath in the forest.

Young Goodman Brown

13. Answer the following about the Ku Klux Klan FTPE.

The Klan was supposedly founded by this former Civil War Cavalry commander in Pulaski, Tennessee in May 1866.

Nathan Bedford Forrest

The Klan was recreated when the first cross was burned on this monument near Atlanta, Georgia in 1915.

Stone Mountain

This was the man who recreated the Klan in 1915.

"Col." William J. Simmons

14. Name the shows on Adult Swim on the Cartoon Network FTPE.

This show follows the adventures of Frylock, Master Shake and Meatwad and their wife-beater wearing neighbor Carl.

Aqua Teen Hunger Force

This show features the voice of Erik Estrada and follows the underwater adventures of Quinn, Captain Murphy, Debbie, and others.

Sealab2021

A winged lawyer is the hero of this show. He was defended Fred Flinstone and Shaggy and Scooby.

Harvey Birdman: Attorney at Law

15. Religion/Mythology

Name the heresies FTPE

This heresy was ruled illegal by the Council of Nicea and said that the Son was not equal with the Father

Arianism

Created by the patriarch of Constantinople, it said that Jesus had two distinct personalities.

Nestorianism

The Coptic Church still adheres to this heresy and it said that the two natures of Christ were fused into one nature.

Monophysite or Monophysitism

16. Name the Roman writer FTPE

This author was a former slave of a senator. He wrote six comedies all of which are set in Greece.

Terence or Publius Terentius Afer

A friend of Martial, he lived a life of poverty, but wrote sixteen satires of Roman society.

Juvenal or Decimus Junius Juvenalis

He was the secretary of Hadrian, but is most famous for his Lives of the Caesars.

Suetonius or Gaius Suetonius Tranquillus

17. Name the architect from works FTPE.

World Trade Center

Minoru Yamasaki

Pyramid at the Louvre, Rock and Roll Hall of Fame

I. M. Pei

Carnegie Hall Tower, Petronas Towers