

Lightning Round 2

TTGT11 VI: Lick My Love Pump

Written by Andrew Juhl and the University of Iowa Academic Quiz Club.

Edited by the University of Iowa Academic quiz Club.

BEGIN ROUND 2

She jumped bail after being indicted for obscenity and fled to England. “The movement she started will grow to be the most influential of all time,” said H.G. Wells of this woman, who helped overturn the Comstock laws. Critics usually mention her unfortunate association with eugenics. FTP, name the founder of the International Planned Parenthood Federation.

Answer: Margaret Sanger

He worked in his father's pencil factory, opened a school with his brother John, was a land surveyor, and worked as a handyman. When his brother died of lockjaw, this author developed a sympathetic case that almost killed him as well. Strongly motivated by his transcendentalist beliefs, he decided to live simply for 2 years, 2 months, and 2 days in a cabin he built himself on a pond owned by Ralph Waldo Emerson. FTP, name this author of *Civil Disobedience*, which influenced Gandhi and Martin Luther King Jr., as well as others.

Answer: Henry David Thoreau

About to flunk out of his school, though his parents don't know it yet, he is confused and disillusioned, runs away from school and lives on his own in New York for three days. While on his own, he repeatedly tries to call his old friend, Jane Gallagher, but can't manage to place the call. Besides this inability to communicate, he faces common teenage problems as he remembers the suicide of his schoolmate Elkton Hills, contemplates whether his teacher is actually a pedophile, and sees the desperate sadness in the reality of prostitutes. FTP, name this protagonist of J.D. Salinger's *The Catcher in the Rye*.

Answer: Holden Caulfield

These are organic magnesium halides dissolved in non-reactive solvents—typically dry ethyl ether. The substance is made up of an organic group, such as an alkyl or aryl group, and joined by a highly polar covalent bond to magnesium, while the magnesium is joined by an ionic bond to a halogen ion. These react with water, oxygen, carbon dioxide, or almost any electrophilic organic compound, and the reaction of these with aldehydes to form alcohols is of particular importance in the laboratory. FTP, identify these reagents, named for the French chemist who received the 1912 Nobel Prize for their discovery.

Answer: Grignard reagents

Rome, Spain, Gaul, North Africa, and at one point, most of the Mediterranean, were all attacked and invaded by these people, who originally left Scandinavia to end up settling in various other places. These Germanic people, whose last king Gelimer was defeated by the Roman army in 533 and taken to Constantinople, were also soon conquered by the Byzantines. FTP, name these Arian Christians known for pillaging Rome and stealing its art in 455 under the leadership of King Geiseric.

Answer: Vandals

Mary's life changes the day she finds out that her boyfriend may be gay. She has sex with him to see if that “straightens him out,” but she only becomes pregnant. She soon becomes ostracized from her friends, and takes up with a crowd that includes Cassandra, a Jewish girl, and Roland, a paraplegic. Her mother doesn't notice, as she is having an affair with the school's principal, Pastor Skip. This is the plot for, FTP, this film, which uses a Christian high school to satirize fanatically religious folk.

Answer: Saved!

Border skirmishes throughout the late 1920s culminated in an all-out war in 1932, when the Bolivian army, following the orders of President Daniel Salamanca, attacked a Paraguayan garrison at Vanguardia. Bolivia's European elite forcibly enlisted the large indigenous population into the army, while the Paraguayan army was ill-prepared for the dearth of water or the harsh conditions of terrain and climate they encountered in the region. FTP, identify this war fought over control of the Paraguay River and for possible oil rights – oil which Paraguay learned didn't exist long after they won the war in 1935.

Answer: Gran Chaco War

Born in 1914, this Nobel Prize winner was born in Saude, Iowa, a small Norwegian-American community. After earning a Ph.D. from the University of Minnesota, he did research at W.I. du Pont de Nemours in Delaware before establishing a research institute in El Batan, Mexico. FTP, name this famous Iowan who created the World Food Prize Foundation to honor those who have made significant strides towards ending world hunger.

Answer: Dr. Norman Borlaug

He was born Friedrich Wilhelm Plumpe in 1888 in Germany, though he would die in California. His first American work was *Sunrise* and he later directed *Tabu* with Robert Flaherty, after which a car crash took his life. 1924's *The Last Laugh* is frequently singled out as a masterpiece of purely visual narration but he is best known, FTP, as the director of 1922's *Nosferatu*.

Answer: F. W. Murnau

It was written after the author's narrow escape from insanity after being ordered by a specialist in nervous diseases to 'have but two hours of intellectual life a day' and 'never to touch pen, brush, or pencil again'. After three months she dismissed his advice and wrote this short essay and sent a copy to the physician. In it, a woman believed to have a slight hysterical tendency is unwillingly confined in her room by her husband and physician. FTP, name this essay by Charlotte Perkins Gilman about a woman who becomes increasingly obsessed by the wallpaper on the walls.

Answer: *The Yellow Wallpaper*

Its capital was at Chang'an, the most populous city in the world at the time, and stimulated by contact with India and the Middle East, it saw a flowering of creativity in many fields. During this period, Buddhism was adopted by the imperial family, becoming a permanent part of Chinese culture. Block printing made the written word available to greater audiences, and civil service exams became standard. FTP, identify this Chinese dynasty which rivaled the Han as the golden age of medieval China, which ruled from 618 AD until being conquered by Zhu Wan in 907.

Answer: Tang dynasty

He made his bigscreen debut as a nameless soldier in *Prizzi's Honor*, followed by the prized role of "2nd dock worker" in *Who's that Girl?* Roles on "The Street" and "Wiseguy" led to a turn as Lucky Luciano in *Billy Bathgate*, and he sprang up during the early 90s in *The Gun in Betty Lou's Handbag*, *The Pelican Brief*, and *Jury Duty*. He'll be seen in the upcoming J.Lo. vehicle *Shall We Dance?*, marking the second time he paired with Lopez – the last movie being *Maid in Manhattan*. FTP, identify this balding actor who can currently be seen as the Immigration Services heavy Frank Dixon in *The Terminal*.

Answer: Stanley Tucci

Born in Paris to a long line of scientists, he took over from his father as Chair of Applied Physics at the Conservatoire des Arts et Metiers. His earliest work was concerned with the plane polarization of light, with the phenomenon of phosphorescence and with the absorption of light by crystals. In 1896, however, his previous work was overshadowed by his accidental discovery of the phenomenon of natural radioactivity while experimenting with uranium salts. FTP, identify this man who shared the 1903 Nobel Prize in physics with the Curies and whose name still graces the SI unit for radioactivity.

Answer: Antoine Henri Becquerel

The hero, a disciplined author, becomes aware of mysterious decadent potentialities of himself as he succumbs to a consuming love for a Polish boy named Tadzio while on holiday in Italy. The author, Gustav von Aschenbach learns of a potential cholera epidemic in the city, but his love forbids him to leave and he dies there. FTP, name this 1912 novella from Thomas Mann.

Answer: Death in Venice or Der Tod in Venedig

The University of Chicago was established as the national university for this religion. In the early 17th Century John Smyth advocated a union with the Mennonites, believing them also to have a legitimate faith. John Bunyan, a minister of this religion, was imprisoned for his beliefs in 1666. It was founded in America by Roger Williams in Providence. FTP, National, Particular, General, First, Northern, and Southern are all factions of this protestant religion.

Answer: Baptist

Known for both love and war, both fertility and death, this goddess was much sought after by giants, dwarves, and men alike for her beauty. This goddess shares the souls of slain heroes with her brother, some are sent to entertain in her halls while others go to Valhalla. FTP, name this Norse Goddess who has a chariot pulled by two large grey and black cats.

Answer: Freya

In collision theory, A is equivalent to the product of the molecular collision rate and the reaction probability per collision, which is determined by molecular orientation and a minimum energy. In activated complex theory, A is computed from the thermodynamics of the transition state of which the entropy is the most important. In kinetics, it is most often used to measure different rates of reaction at different temperatures. FTP, what is this equation that relates a preexponential factor of A, an activation energy, the gas constant, and temperature to calculate a reaction rate constant, k, and named for a Swedish scientist.

Answer: Arrhenius Equation

His name means Emperor or Sultan Moses, and he was the grandnephew of Sundiata. While traveling through Cairo, he gave away so much gold that the market was affected for over twenty years. When he went on a hajj to Mecca, 500 slaves accompanied him, each carrying a 4 lb. gold staff. During his reign, his kingdom reached its farthest extent and Timbuktu became a center of the African and Islamic world. FTP, name this 14th century ruler who literally put Mali on the map.

Answer: Mansa Musa

We see the figure reclining, the head to the right of the painting, hands behind the head. The dress clings to the figure, as if it had been dipped in water. This, along with the shading in the neither-regions suggest nudity in the viewers mind. Nudity was not suggested but rather shown when the same figure posed for another painting, this time nude. Legend has it that the Duchess of Alba posed for this work, one of several of Goya's works in the Prado. FTP, name this painting where the subject wears more than just a smile.

Answer: The Maja Dressed, The Maja Clothed, La maja vestida

An example of this relationship is that which exists between the shark and the remora. The remora attaches itself to the shark's back and feeds off the shark's scraps and leftovers. The shark is neither helped nor harmed by the remora. It is not a parasitic relationship, as the host is not harmed, nor is it mutual. FTP, name this type of species interaction where one organism benefits and the other is neither harmed nor helped.

Answer: commensalism or commensal

Paraffin and asphalt settle at the bottom, as they have the highest boiling point. Above them settle, in order from lowest to highest, lubricating oils, heating oils and diesel fuel, solvents, paint thinners and kerosene, gasoline, and at the top, bottled gas. It is the process used at refineries to separate the various hydrocarbon compounds present in petroleum. FTP, name this process that takes place in the fractionating towers.

Answer: fractional distillation (*prompt on early buzzes of oil refining and that ilk*)

He was apprenticed to Sir Humphry Davy, who later opposed his election into the Royal Society. In 1825, he isolated benzene. He built the first electric motor, and discovered the principle of induction, which were both improved by Joseph Henry. FTP, name this discoverer of one of Maxwell's equations, and namesake of the SI unit of capacitance.

Answer: Michael **Faraday**

"Back to the Island", a single in 1992 for this band, was covered by Hanson on their first independent record. In 1998, they would open for Hanson on the Albertane Tour, they had already been together for more than 20 years and had five consecutive platinum albums in Japan. Breaking into the US with a cover of a song written in 1998 for a Trinidad festival, that song was on an album of the same name released in 2000. FTP, name this band whose only U.S. hit equates men with dogs and asks who let them out?

Answer: **Baha Men**

Originating in northwest India, they went to Persia in the first millennium AD and have since divided into groups such as the Manush, Kalderash, and Gitanos (Hee-TAH-nos). They first appeared in North America in the late 1800s, and since the end of communism in Europe, they have seen increased discrimination. Their language is Indo-Iranian, but they are most prominent in the Balkans and Iberia. Half a million died in Nazi camps but estimates put them at 10 million worldwide. FTP name this group, sometimes referred to as Romany.

Answer: Gypsies (accept Romany before it is said)

This debut novel is both a love story and a science fiction novel. The story is alternatively told from the points-of-view of the two main characters—a librarian and an artist. Henry, the librarian, meets the love of his life when he is 28 years old, but his artist love, Clare, has already known Henry for 14 years when that meeting occurs, and she dates their first meeting to when she was only six years old. FTP, name this novel by Audrey Niffenegger that tells the story of a man who travels through time and the woman who steadfastly spends her life waiting for him to return.

Answer: ***The Time Traveler's Wife***

The son of an illiterate Mississippi sharecropper, this author had his first story published in the Southern Register at age 16. He was involved with the Communist Party from 1927 to 1944, and he became friends with Jean-Paul Sartre and Albert Camus after moving to Paris. FTP, name this author who wrote two autobiographies, one of which was titled Black Boy.

Answer: Richard Wright

It was once used extensively in New Zealand, but overuse depleted this resource. This is typical of large-scale operations, as they can use up the available energy and the Earth is slow to replace it. The hot dry rock method involves drilling two holes into a hot rock deposit, then pumping high-pressure water down one hole, fracturing the rock. The water returns, heated, and the steam is routed to a turbine. FTP name this source of energy, produced by the Earth's natural heat.

Answer: geothermal

The Nobel Prizes went to: R. Bruce Merrifield for Chemistry, Carlo Rubbia and Simon van der Meere for Physics, Milstein, Khler, and Jerne for Physiology or Medicine, and Jaroslav Siefert won for literature. The president visited China and Stalin's daughter returned to the USSR after a 17 year absence. The US executed its first woman since 1962 and Eric Dickerson ran for 2,007 yards for the Rams. FTP name this year that saw Desmond Tutu also take home a Nobel and Eddie Murphy star in Beverly Hills Cop.

Answer: 1984

His calculated speech patterns don't give much of a hint to his place of origin, but it is hypothesized that he hails from Galway. His allegiances are quite flexible, as in the span of less than three years he has worked for the CIA, K Directorate, and SD-6. He currently heads the North American division of The Covenant. He is also heir to the Romanov dynasty. This is, FTP, what Alias nemesis whom Sydney describes as "like the good-looking guy in high school who knows how cute he is and won't take no for an answer?"

Answer: **Julian Sark** (*accept either*)

He left a teaching position at Harvard to join the Army, where he served under then-Col. Curtis LeMay and was involved in the strategic bombing of Japan. After leaving active duty, he joined Ford Motors, eventually becoming president, but he only served for five weeks. After leaving his most well-known position, he became president of the World Bank for 13 years. FTP, name the Secretary of Defense who served under Presidents Kennedy and Johnson.

Answer: Robert Strange **McNamara**

In North America it is found in southern California, in South America, it is in the northern half of Chile. It borders the sea on the south side of Australia and on the Mediterranean coasts of Morocco and Algeria. It is defined as a "coastal biome with a Mediterranean climate and low-lying vegetation." FTP name this biome found mainly on the Mediterranean coasts of Europe.

Answer: chaparral

In his works, he served as the model for his Christ images, since he felt Jesus would have a similar conflict with society. Fittingly, his early paintings were rejected from exhibition by local galleries, leading him to co-found Les XX. While several of his works depicting masks were shown by Les XX, they did not allow him to exhibit his most famous painting, *Christ's Entry into Brussels in 1889*. "Meet," FTP, this man, "Belgium's famous painter," as sung by They Might Be Giants.

Answer: Baron James **Ensor**

Named after the Danish mathematician, it is used to prove the relationship between the hypergeometric, geometric, and arithmetic means of a given set of numbers. It uses the natural logarithm and--because it can be used in conjunction with a weighted mean--it can be used to prove Holder's inequality. For ten points, identify this inequality that states that the average of a convex function applied to a set of points is less than the value of the same function of the mean.

A. **Jensen's Inequality**

Its activities are coordinated through a council of 25 Swiss citizens and it was founded by a man who at the battle of Solferino in 1859 aided the wounded. For 10 points, identify this organization that grew out of the Geneva Public Welfare Society that was founded in 1863 by Jean Henry Dunant.

Answer: International Red Cross

His song, "WaWaWa," can be credited with originating the term, "wah-wah." It came from his pioneering use of mutes to alter the sound of the cornet. Due to poor business acumen and gum disease, he died in poverty after attempting to make it with the Dixie Syncopators in New York. Earlier, he left New Orleans for Chicago with Kid Ory, and he formed his most famous group, the Creole Jazz Band. FTP, name this early member of jazz royalty, the mentor and teacher of Louis Armstrong.

Answer: Joe "King" Oliver

The only living member of its family, Hydrochoeridae, it can be found in tropical and temperate parts of South America. As their family name implies, they are always near water, having adapted webbed feet. They weigh up to 65 kg and can be up to 135 cm in length. They use water for protection from predators and the sun, and can even sleep underwater, with only the nose exposed. Resembling large guinea pigs, FTP, name this mammal, the world's largest rodent.

Answer: Capybara

Written in an explicit and flowing style, it describes how the author learned to read and write from a kind mistress who lived on the plantation; however, it also depicts the vicious cruelty of his master and the ultimately blighted lives of his fellow slaves. Containing a preface from William Lloyd Garrison and a letter from Wendell Phillips, this is, FTP, what narrative published in 1845?

Narrative of the Life of Frederick Douglass

This body of water is named after the Dutch navigator who crossed it three times in the 1590s in his attempts to reach the East Indies. Ports on this sea include Vardø, and remain ice-free year round. Before the Winter War in 1939, the port in the Petsamo region was the only winter port for Finland. FTP, name this body of water, whose largest port is the region of Murmansk, the home of most of Russia's nuclear submarine fleet.

Answer: Barents Sea

Born to Irish immigrants in St. Louis, Missouri, this author started at the Academy of the Sacred Heart at age 5. She married a New Orleans native and became immersed in Creole culture, which later became the focus of her writing. She published her first novel, At Fault, in 1890. FTP, name this author whose second novel, The Awakening, marked the end of her literary career.

Answer: Kate Chopin

Considered a non-essential amino acid since it can be produced by the body, it works as an antioxidant and is required for the production of taurine, a very essential ingredient to Red Bull. Its N-Acetyl form is used in detoxifying the human body of toxins as mercury, cadmium and lead. It has the distinction of sharing the same heteroatom in its R-group as methionine. Upon combination of two of these amino acids, a bridge is formed between which can dictate structural folding when the amino acid is present in a protein. FTP, name this residue whose R-group is a methylene group terminated by a thiol, and whose abbreviation is C.

Answer: Cysteine

END ROUND 2

EXTRA: Pursued by the authorities beginning in 1904, she eluded them for three years until her capture and commitment to isolated Riverside Hospital on a New York island. After her release in 1910, she was pursued again in 1914 when she broke a pledge not to take another job in food handling. For ten points, name this infamous first carrier of the typhoid bacilli in the U.S.

Answer: Typhoid Mary Mallon

The top two scorers of this round will advance to Round 3