



CATEGORY ROUND

American Literature: Modern Fiction

Team A: What postmodern novelist wrote *The Crying of Lot 49*?

ANSWER: Thomas **Pynchon**

Team B: What novel about Tyrone Slothrop is Pynchon's most famous?

ANSWER: **Gravity's Rainbow**

Tossup: Irving Langmuir was the inspiration for a character created by this author, who invents a way to instantaneously harden mud to aid soldiers. This author provided his own illustrations for a novel in which the protagonist goes on a berserk killing rampage because he believes that everyone else alive is a robot. In his best-known novel, an optometrist predicts exactly how he will die, since he's been jumping forwards and backwards through time ever since the fire-bombings of Dresden. Name this author of *Cat's Cradle* and *Slaughterhouse-Five*.

ANSWER: Kurt **Vonnegut**

Mathematics: Sets of Numbers

Team B: This is a 10-second calculation question. Given the set of numbers 4, 5, 7, 7, 8, 10, 13, 14, 20, find the sum of the median and mode.

ANSWER: **15**

Team A: This is a 10-second calculation question. What is the difference between the mean and the median of the set of five numbers: 13, 4, 2, 6, 0?

ANSWER: **1**

Tossup: Numbers in this set can be found by taking powers of the matrix with rows 1, 1 and 1, 0, or more explicitly with Binet's formula. The Lucas numbers have the same recurrence relation as this sequence, which is why the ratio of its terms also tends to the golden ratio. Leonardo of Pisa derived this sequence by considering a set of rabbits which mated with each other each month. Identify this sequence starting 1, 1, 2, 3, 5, in which each term is the sum of the previous two.

ANSWER: **Fibonacci** numbers [or **Fibonacci** sequence]

World History: Pelagians

Team A: What author of the *City of God* often attacked Pelagianism?

ANSWER: Saint **Augustine**

Team B: What doctrine regarding humanity's fallen state after the expulsion from the Garden was denied by Pelagius?

ANSWER: **original sin**

Tossup: This period traditionally begins with the victory of Pelagius at the Battle of Covadonga. A battle during this period led to the downfall of the Almohads, who were defeated by Alfonso VIII at Las Navas de Tolosa. This period, which resulted in the continuous shrinking of Al-Andalus, ended in 1492 with Isabella and Ferdinand's capture of Granada. Name this several centuries long period during which Christian states took back the Iberian Peninsula from Muslim states.

ANSWER: La **Reconquista** [or The **Reconquest**]

Fine Arts: Old Buildings

Team B: What temple to all of the gods was built in Rome during the reign of Augustus?

ANSWER: **Pantheon** [do not accept "Parthenon"]

Team A: What largest structure in the Giza necropolis was built for Khufu or Cheops?

ANSWER: **Great Pyramid** [prompt on **pyramid**]

Tossup: Originally, ninety-two metopes (meh-TOH-payz) in this building depicted the Gigantomachy, Amazonomachy, and Centauromachy. A festival procession focused on a robe called a peplos is depicted on this building's namesake frieze. The British Museum now houses many marble sculptures stolen from this building by Lord Elgin. For this building, Phidias sculpted a depiction of Athena, its dedicatee. Name this temple on the Acropolis in Greece.

ANSWER: **Parthenon**

Life Sciences: Microbes

Team A: What species of bacteria has a O157:H7 serotype and is the subject of Richard Lenski's long-term evolution experiment?

ANSWER: *Escherichia coli*

Team B: What type of algae, naming a type of rock, have an outer covering called a frustule, which is made out of silica?

ANSWER: **diatoms**

Tossup: This organism contains vesicular structures called Berkeley bodies, which are involved in the CTV pathway. Its vacuoles contain phosphate-rich "dancing bodies". This organism releases A- and alpha-factors during mating, and since it cannot metabolize nitrate, this organism requires supplemental ammonia and urea to promote growth. This organism is one of the smallest in the phylum Ascomycota, and it was the first eukaryote to have its genome sequenced. Identify this single-celled fungus commonly used to leaven bread and make beer.

ANSWER: Baker's **yeast** [or *Saccharomyces cerevisiae*]

World Literature: English Novels

Team B: What novelist wrote *The Woman in White*?

ANSWER: Wilkie **Collins**

Team A: A diamond is the title object of what famous detective novel by Collins?

ANSWER: *The Moonstone*

Tossup: The main character of this novel tries to help a man using the alias Provis escape from Arthur Compeyson. A character in this novel is engaged to Bentley Drummle. This novel's protagonist befriends Herbert Pocket and receives help from Mr. Jaggers. The blacksmith Joe Gargery takes in the main character of this novel before he goes to live with Miss Havisham and Estella, and then travels to London with money from Abel Magwitch. Name this coming-of-age novel about the orphan Pip that was written by Charles Dickens.

ANSWER: ***Great Expectations***

US Government/Economics: States

Team A: What state has recently been governed by 2012 Libertarian Presidential nominee Gary Johnson and Clinton and Obama confidante Bill Richardson?

ANSWER: New Mexico

Team B: Susan Rice and Samantha Power have held what position in the Obama administration, the only international post that Bill Richardson held under Bill Clinton?

ANSWER: U.S. ambassador to the United Nations [prompt on ambassador]

The junior senator from this state beat Richard Carmona in an election to replace Jon Kyl, and both senators from this state are part of the immigration Gang of Eight. Sheriff Joe Arpaio is elected in this state's Maricopa County, and Gabrielle Giffords represented this state's 8th district. Name this US state currently represented in the Senate by Jeff Flake and John McCain.

ANSWER: Arizona

Physical Sciences: Particle Physics

Team B: Experiments at CERN in 2012 found what elusive "God" particle hypothesized to give other particles mass?

ANSWER: Higgs boson

Team A: Identify the process in which a neutron decays into a proton, an electron, and an antineutrino.

ANSWER: beta-minus decay

Tossup: The thermal utilization factor is a ratio between this process and absorption, while the reproduction factor is an average of how many neutrons are produced in this event. This reaction is sustained at a multiplication factor of one, and when uranium undergoes this process, it releases 2.5 neutrons on average. Name this process discovered by Hahn and Meitner in which an atomic nucleus is split into two pieces.

ANSWER: nuclear fission

World Geography: Lakes

Team A: What high-altitude lake in the Altiplano is shared by Peru and Bolivia?

ANSWER: Lake **Titicaca**

Team B: What lake in Egypt was formed by the construction of the Aswan High Dam

ANSWER: Lake **Nasser**

Tossup: This country's major poet is often depicted playing the stringed *dombra*. The Irtysh River flows through Lake Zaysan in this country, while the Ili River flows into its Lake Balkash. The largest city in this country is Almaty. It contains the largest space launch facility in the world, the Baikonur Cosmodrome. Nursultan Nazarbayev is the president of this largest landlocked country in the world. Name this Central Asian country south of Russia and west of Mongolia.

ANSWER: **Kazakhstan**

American History: Commissions

Team B: The Tower Commission investigated what scandal that involved Lieutenant Colonel Oliver North?

ANSWER: **Iran-Contra** affair

Team A: The Iraq Study Group commission in 2005 featured as a member what man who left to become George W. Bush's second Secretary of Defense, a job he kept in the Obama administration?

ANSWER: Robert **Gates**

Tossup: These events can be quantified on the INES (I N E S) scale, and the Liquidators were a group of people who responded to one of these events. President Carter created the Kemeny Commission to investigate one of these events that occurred near the Susquehanna River. These events release the isotopes iodine-131 and cesium-137. Identify these disasters in which a fission plant overheats and releases radiation into the environment, exemplified by the Chernobyl incident.

ANSWER: **nuclear** power plant **meltdown** [or **nuclear** power plant **disaster**, etc.]

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Alphabet Round - Letter M ANSWERS

1. Mayflower
2. macula
3. the Miller
4. muses
5. Maine
6. mosaics
7. Middletown
8. Mie scattering
9. Michelin
10. macrophages
11. Memphis
12. mandible
13. Mark
14. Guglielmo Marconi
15. Matthew
16. Mars
17. magnesium
18. Mardi Gras
19. Mikrokosmos
20. Madagascar

FINAL ROUND

1. During a visit to the United States, this man was disgusted by the film *Can-Can* and angry that he could not visit Disneyland. This world leader gave the "Secret Speech" against his predecessor. He banned publication of the novel *Doctor Zhivago*. This man banged his shoe on his desk in a 1960 UN meeting, and his country sought to install nuclear weapons during the Cuban Missile Crisis. Name this leader of the Soviet Union who succeeded Josef Stalin.

ANSWER: Nikita **Khrushchev**

052-14-103-16101

2. This philosophy was espoused by Spanish writer Miguel de Unamuno in *The Tragic Sense of Life*. This philosophy was used to argue that women are treated as "the Other" in the feminist text *The Second Sex*. This discipline "is a humanism" according to a lecture delivered by the author of *Being and Nothingness*, leftist intellectual Jean-Paul Sartre. Name this philosophy that broadly concerns the way humans make their own meaning for their lives.

ANSWER: **existentialism**

080-14-103-16102

3. This European city featured numerous searchlights that formed the "cathedral of light," one of Albert Speer's architectural designs. A movie with scenes at the Luitpold Arena was set here and directed by Leni Riefenstahl. The film *Triumph of the Will* documents a rally held in this city, which was where Hermann Goering and Rudolf Hess were put on trial. Name this German city, whose Palace of Justice hosted post-World War II war crimes trials.

ANSWER: **Nuremberg**

052-14-103-16103

4. This artist's *The Woman in the Green Dress* was one of many of his paintings to feature Camille Doncieux. This man spent his later life living in the town of Giverny. (JIV-er-nee) His painting of a boat in the harbor of Le Havre lent its name to the Impressionist movement. This artist also painted several series of works showing Rouen Cathedral and haystacks from different angles and in different lights. Name this Impressionist known for his paintings of water lilies.

ANSWER: Claude **Monet**

015-14-103-16104

5. Early in this poem, the speaker expresses his longing for "a draught of vintage" and "a beaker full of the warm South," since with a drink he can then "fade far away." This poem begins with the speaker feeling that his "head aches, and a drowsy numbness pains my sense," and he concludes by asking, "Do I wake or sleep?" The speaker of this poem climatically exclaims, "Thou wast not born for death," addressing the title bird. Name this ode by John Keats.

ANSWER: "**Ode to a Nightingale**"

140-14-103-16105

6. In an opera by this composer, Queen Tye joins the title character and his wife at the Window of Public Appearances. The phrase "Bank robbery is punishable by twenty years in federal prison" is repeated in another of his operas, whose libretto employs solfege symbols. That opera by him includes the section "I Feel the Earth Move" and has its acts separated by Knee Plays. Name this minimalist composer of *Satyagraha*, *Akhenaten*, and *Einstein on the Beach*.

ANSWER: Philip **Glass**

224-14-103-16106

7. This scientist was the doctoral advisor for Urey (YUR-ee) when he discovered deuterium. Earlier, this scientist synthesized pure deuterium oxide, or heavy water. This man names a class of compounds that activate the Friedel-Crafts reactions and include boron trifluoride and aluminum trichloride. This man, who coined the term "photon," devised a representation of bonds within molecules by using either lines or dots to indicate pairs of electrons. Name this scientist who classified acids as electron pair acceptors.

ANSWER: Gilbert Newton **Lewis**

239-14-103-16107

8. In this market structure, the marginal cost curve crosses the marginal revenue curve at the global minimum of the average total cost curve. All firms in this market structure are price-takers and sell homogenous goods. This structure exists when there are low barriers to entry and exit, high information exchange about products and prices, and a large number of firms in a market, none of which dominates. Supply and demand alone determine prices in this market structure. Identify this basic microeconomic structure, in which nothing impedes the ideal function of the market, and from which real-world markets are often defined by their deviation.

ANSWER: **perfect competition** [or **perfectly competitive** market]

019-14-103-16108

9. These things originate in source regions that are flat and have light surface winds. These things are designated with a combination of a small c or small m, for continental or marine, and a big P or big T, for polar and tropical. On surface weather maps, transition zones between them are marked by lines with equally spaced triangles, semicircles, or a combination of both and are called fronts. Name these large bodies of air that have a consistent temperature and moisture content.

ANSWER: **air masses**

066-14-103-16109

10. A drunk one of these creatures named Eurytion (yur-IT-ee-ahn) tried to carry off the bride of Pirithous (pee-rih-THOO-us), which resulted in a losing fight against the Lapiths. Another one of these creatures was shot by a poisoned arrow when he tried to kidnap Deianira (DIE-uh-NAH-ruh). The teacher Chiron was one of these creatures. Name these creatures from Greek mythology that had the upper body of a human but the four legs of a horse.

ANSWER: **centaurs** [or **kentauros**]

023-14-103-16110

11. Reference frames that lack this property may be subject to so-called "fictitious" forces. Special relativity only applies to reference frames with this property, which must be non-accelerating. A rotational quantity named for this property is equal to $M R^2$ for a point mass and is known as its "moment". Aristotle misunderstood this concept, which allows for objects to keep traveling in straight lines. Name this topic of Newton's first law, the tendency of a body to resist a change in motion.

ANSWER: **inertia** [or word forms such as **inertial**; prompt on **non-accelerating** until it is read]

132-14-103-16111

12. This man was the closest collaborator with the librettist Lorenzo Da Ponte. In one of his operas, a maid is serenaded with a mandolin by a window and the title character commands his servant to gather girls for a party in the "Champagne Aria." The maid Susanna assists the title character in rekindling Count Almaviva's love for Rosina in another opera by this man, the sequel to *The Barber of Seville*. Name this composer of the operas *Don Giovanni* and *The Marriage of Figaro*.

ANSWER: Wolfgang Amadeus **Mozart** [or Johannes Chrysostomus Wolfgangus Theophilus **Mozart**]

020-14-103-16112

13. An unfinished highway started in 1970 that was planned to travel along this river had its endpoint set for Benjamin Constant. This river is the namesake of a species of dolphin that is also called the pink dolphin. In 2011, the first bridge to cross a major part of this river system was constructed to link Iranduba (EE-ron-DOO-nuh) and Manaus (mah-NAH-oos) across the Rio Negro. Name this river that has the largest drainage system in the world and is found in South America.

ANSWER: **Amazon** River

023-14-103-16113

14. A character in this novel creates forty-nine dumplings in the shape of human heads and throws them into a river. Another character in this novel blockades a group from crossing a bridge with his thunderous voice. A character in this novel summons the southeastern wind before the Battle of Red Cliffs. This novel begins with the Oath of the Peach Garden, where Zhang (JUNG) Fei, Guan Yu, and Liu Bei become brothers. Name this Chinese novel by Luo Guanzhong (gwan-JUNG) that recounts the struggle between the Wu, Wei, and Shu states.

ANSWER: **Romance of the Three Kingdoms** [or **Sanguo Yanyi**]

227-14-103-16114

15. This indicative tense's third-person plural conjugation is the basis of the subjunctive forms in another tense. The third-person singular conjugation in this Spanish verb tense adds a "y" when the verb has two consecutive vowels. Verbs that end in "-car" replace the "c" with a "q" in the first person in this tense. In this tense, the verbs "ser" and "ir" (EAR) are conjugated the same: "fui," (FWEE) "fuiste," (FWEE-stay) "fue," (FWAY) and so on. This tense should be used only if the action was completed. Name this past tense in Spanish contrasted with the imperfect tense.

ANSWER: Spanish **preterite** [or el **preterito**; do not accept or prompt on "past"]

190-14-103-16115

16. The protein Cdc20 activates a "promoting complex" to start this stage. The cyclosome is also known as a complex that promotes this stage by breaking down securin. This stage occurs due to the removal of tubulin monomers from the "plus" end of a microtubule by the kinetochore (kin-ET-oh-core). Errors in this phase of mitosis can lead to Down's Syndrome and other nondisjunctions. Name this stage of mitosis in which sister chromatids are segregated to opposite sides of the cell and which occurs between metaphase and telophase.

ANSWER: **anaphase** [prompt on **mitosis** until it is read]

190-14-103-16116

17. Howard Jarvis successfully advocated for an amendment to this state's constitution that limited the maximum level of property taxes. Over sixty percent of voters supported that ballot initiative here, which was known as Proposition 13. A man who promised to make the "welfare bums" work defeated Pat Brown for the governorship here in 1966. Brown won its 1962 election running against Richard Nixon, and his son Jerry is the current governor of this state. Name this state, where Ronald Reagan was governor in the 1960s.

ANSWER: **California**

121-14-103-16117

18. This empire lost battles at Vilcaconga and Maraycalla under its general Quizquiz. A city of this empire which is believed to have been built for Emperor Pachacuti (PACH-uh-koo-tee) was discovered by Hiram Bingham. This empire used knotted ropes called quipu (KEE-poo) for record-keeping. A conflict in this empire pitted Huascar (HWASS-car) against a man who was captured at Cajamarca (ca-ha-MAR-ka) and ransomed for a roomful of gold, Atahualpa (aht-uh-WALL-puh). Name this empire which contained Machu Picchu, and was located in modern-day Peru.

ANSWER: **Incan** Empire

122-14-103-16118

19. This is the manner of death of a character who arrives late after thinking her husband is busy stacking wood. A woman dies in this manner at the hands of Old Man Warner and her own family while saying “It isn’t fair, it isn’t right.” This is how Tessie Hutchinson dies in a story after drawing a paper with a black spot on it, apparently to save the town’s crops. Name this method of death which kills the “winner” of the title game in Shirley Jackson’s story “The Lottery.”

ANSWER: **stoning** [or **being hit with rocks** or other such descriptions]

052-14-103-16119

20. One of this author's characters is mentored by a church organist named Pistorius and frequently obsesses about his friend's mother, Frau Eva. In another of this author's novels, the protagonist spends his days listening to a river, eventually becoming a ferryman, after his lover Kamala dies from a snakebite. This author wrote a novel set in Castalia about Joseph Knecht, who strives to become a Magister Ludi, or master of *The Glass Bead Game*. Name this German author of *Demian* and *Siddhartha*.

ANSWER: Hermann **Hesse**

190-14-103-16120

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