



## CATEGORY ROUND

### American Literature: Postmodernism

Team A: What Cormac McCarthy novel follows a father and son across a post-apocalyptic landscape?

ANSWER: *The Road*

Team B: What other McCarthy novel features Judge Holden and a pack of scalp hunters?

ANSWER: *Blood Meridian*

Tossup: In a novel by this man, Richard Elster is the subject of a documentary by Jim Finley. This author of *Point Omega* wrote a novel in which Bill Gray travels to Beirut, entitled *Mao II*. This author of *Libra* wrote about waste management executive Nick Shay in his longest novel. In his most famous book, Jack Gladney is a professor of Hitler Studies who must contend with an "airborne toxic event." Name this postmodern American novelist of *Underworld* and *White Noise*.

ANSWER: Don DeLillo

### Mathematics: Operations

Team B: This is a 30-second calculation question. In the first quadrant, what is the minimum value of the function tangent of x plus cotangent of x?

ANSWER: 2

Team A: This is a 30-second calculation question. What is the determinant of the matrix whose first row is [3 5] and second row is [4 -2]?

ANSWER: -26

Tossup: The line type of this operation is related to its double type by Green's theorem. Another form of this operation can be simplified by applying the divergence theorem, and the Newton-Cotes formula and Simpson's rule approximate this operation. This operation can also be approximated by trapezoids and Riemann sums. For a variable x, taking this operation with respect to x yields x squared over two plus some constant. Identify this operation which usually returns the area under a curve, the opposite of differentiation.

ANSWER: integration [or antidifferentiation until "differentiation" is read]

## World History: Political Parties

Team A: What party, led by Angela Merkel, currently controls Germany?

ANSWER: the **Christian Democratic Union** of Germany [or the **CDU**; or the **Christian Democrats**]

Team B: What was the party of 1980s French president Francois Mitterrand?

ANSWER: the French **Socialist** Party [or Parti **Socialiste**]

Tossup: Several members of this party were implicated in scandals during the "Back to Basics" campaign. A leader of this political party was in power during Black Wednesday, when this party's country was kicked out of the Exchange Rate Mechanism. Michael Haseltine challenged another member of this party for leadership, eight years after that member of this party ordered an intervention in the Falkland Islands. Name this British political party headed at different times by David Cameron and Margaret Thatcher, which opposes the Lib Dems and Labour.

ANSWER: **Conservative** party [or **Tories**]

## Fine Arts: Composers

Team B: What Russian composer and member of The Five is best known for his orchestral interlude, the "Flight of the Bumblebee?"

ANSWER: Nikolai **Rimsky-Korsakov**

Team A: Name the English Baroque composer of *Dido and Aeneas*.

ANSWER: Henry **Purcell**

Tossup: He isn't Spanish, but this composer produced an orchestral triptych called "Iberia." This composer included "The Sunken Cathedral" and "The Girl with the Flaxen Hair" in his collection of twelve piano preludes. The third piece in this composer's *Suite bergamasque* depicts a Paul Verlaine poem about moonlight. Another of his pieces depicts a lustful mythical creature pursuing some nymphs. Name this French composer of "Clair de Lune" and *Prelude to the Afternoon of a Faun*.

ANSWER: Achille-Claude **Debussy**

## Life Sciences: Cellular Structures

Team A: What organelle contains a double membrane, as well as a network of lamina and many pores?

ANSWER: nucleus

Team B: In bacteria, the cell wall is made out of what substance that can be broken down by lysozyme?

ANSWER: peptidoglycan [or murein]

Tossup: These structures are maintained by CLIP and CLASP proteins. Depending on the point of attachment, these structures are divided into astral and polar types. Their formation is inhibited by the anti-cancer drug paclitaxel. Kinesin (kin-EY-sin) proteins are used for transport along these structures. A protein subunit of these structures localizes to the centrosome and assists in the formation of the mitotic spindle at "organizing centers". Identify these largest components of the cytoskeleton, usually pictured as long, hollow rods.

ANSWER: microtubules [prompt on mitotic spindle or equivalents]

## World Literature: Italian Literature

Team B: Which author wrote about conversations between Marco Polo and Kubla Khan in *Invisible Cities* and also wrote *If on a winter's night a traveler*?

ANSWER: Italo Calvino

Team A: Which poet wrote about Scipio ascending to heaven in *Africa* and praised his love Laura in the *Canzoniere*?

ANSWER: Petrarch [or Francesco Petrarca]

Tossup: This poet defended the artistic merit of his native language in the treatise *De Vulgari Eloquentia*. He paired his *canzones* with literal and allegorical interpretations in his *Convivio*. His autobiographical *La Vita Nuova* recounts his love for a member of the Portinari family who appears in his most famous poem, in which she guides him through nine spheres. That epic poem of his describes a journey led by Virgil through Purgatory and Hell. Name this Italian poet who wrote *The Divine Comedy*.

ANSWER: Dante Alighieri [or Dante Alighieri]

## US Government/Economics: Great Balls of Fire

Team A: What two-word term was given to the rule change that Senate Democrats passed in November 2013 to eliminate the filibuster against most nominees?

ANSWER: the "**nuclear option**"

Team B: What term for the generation born between 1946 and 1964 is used to identify the bulging cohort of senior citizens entering retirement?

ANSWER: the "**baby boomers**"

Tossup: A film attacking this practice depicted a man igniting a fireball by holding a match up to his kitchen faucet. Debate over this practice often focuses on the future of the Marcellus region. Matt Damon starred in a 2012 Gus Van Sant film about the controversy over this practice, *Promised Land*. In this technique, gallons of high-pressure fluid are injected underground to crack the rock around a gas well. Name this controversial method of extracting natural gas.

ANSWER: induced hydraulic **fracturing** [or **fracking**]

## Physical Sciences: Physics Nobelists

Team B: What physicist names the equation " $H \psi$  equals  $E \psi$ " and also proposed a paradox in which a vial of poison in a box is simultaneously intact and shattered?

ANSWER: Erwin **Schrodinger**

Team A: What Frenchman won the Nobel Prize for his PhD thesis about wave-particle duality?

ANSWER: Louis **de Broglie**

Tossup: Taking derivatives of a quantity found in an equation named for this man gives the Christoffel (kri-STAH-ful) symbols; that quantity is the metric tensor, which is multiplied by lambda in this man's namesake field equations. He called the cosmological constant his greatest blunder, and one of his theories predicted the precession of the perihelion of Mercury. Name this scientist, who posited that mass curves space in order to create gravity in his theory of general relativity.

ANSWER: Albert **Einstein**

## **World Geography: Naval Bases**

Team A: Which country's capital serves as the headquarters of the U.S. Navy's Fifth Fleet, which helps protect this country located across an inlet of the Persian Gulf from Qatar?

ANSWER: Kingdom of **Bahrain**

Team B: Which country, which is currently led by Ismail Guelleh, is the home of the Camp Lemonnier base and is located in the Horn of Africa?

ANSWER: Republic of **Djibouti**

Tossup: Native crocodiles in this country can be found at the Zapata Swamp. This country owns the Isle of Youth, which was also known as the "Isle of Parrots" and "Treasure Island." The oldest Spanish settlement here was at Baracoa. It is to the west of the "Windward Passage," which separates it from an island split into two countries. The United States maintains a base on a bay in this country named Guantanamo. Name this Caribbean island 90 miles to the south of Florida.

ANSWER: **Cuba**

## **American History: Roses**

Team B: Rose, a member of what family, was the mother of the founder of the Special Olympics and the mother-in-law of Sargent Shriver?

ANSWER: **Kennedy**

Team A: General Maurice Rose, one of the highest-ranking casualties in World War II, served under what World War I hero known as "Black Jack"?

ANSWER: John **Pershing**

Tossup: At a meeting after this event, Rose Schneiderman said she would be a traitor to those who died if she tried "to talk good fellowship." This event prompted the formation of a safety committee chaired by Frances Perkins, which proposed a fifty-four-hour work week, a proposal welcomed by Tammany Hall head Al Smith. After it was revealed that the stairs and exits had been locked by the owners during this incident, unions such as the International Ladies Garment Workers Union fought for improved labor conditions. Name this deadly 1911 fire in a New York City factory.

ANSWER: **Triangle Shirtwaist** Factory fire

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1. Jacques **Offenbach**
2. **On the Road**
3. **overtones**
4. **Oklahoma City**
5. Grigory **Orlov**
6. **Omphale**
7. **Object permanence**
8. **Othello**
9. **ommatidium** [or **ommatidia**]
10. **Obamacare**
11. **ozone**
12. **Orlando**
13. **obsidian**
14. **Ottoman** empire
15. Jose Clemente **Orozco**
16. **orishas**
17. **overcoat**
18. **Occam's razor**
19. **Odessa**
20. **Ogedei** Khan [or **Ogodei** Khan]

## FINAL ROUND

1. At a trial in this novel, its antagonist is called a "goblin-monk." It begins at the Festival of Fools, where Pierre Gringoire is trying to promote his play. Phoebus leads the King's Archers in this novel, in which Claude Frollo is killed by the title character after he expresses joy at Esmeralda's death. Name this novel by Victor Hugo about a deformed man who serves as bell-ringer in a Parisian cathedral.

ANSWER: The **Hunchback of Notre-Dame** [or **Notre-Dame de Paris**]

192-14-103-10101

2. The Tempo program is used to find and model these objects, which are sometimes surrounded by a plerion. An example of these objects in Virgo is surrounded by the first discovered extrasolar planets. A binary example of them was used to indirectly prove the existence of gravitational waves by Hulse and Taylor. Burnell and Hewish named the first discovered one LGM-1 and noted that its emissions were periodic. Name these highly magnetized rotating stars that periodically emit radiation.

ANSWER: **pulsars** [or **pulsating stars**; prompt on neutron **stars**]

048-14-103-10102

3. This concept is the first word in the title of a Sigmund Freud book that explains why the homosexual Dora feels revolted by Herr K. The "latent" form of this concept results from exposure to the conditioned stimulus before beginning a classical conditioning experiment. Clark Hull theorized a "reactive" form of this concept. If an animal learns that the presence of a conditioned stimulus signifies the lack of the unconditioned stimulus, this form of conditioning is said to have occurred. Name this suppression of behavior that is contrasted in conditioning with excitation.

ANSWER: **inhibitions** [or **inhibitory**]

003-14-103-10103

4. One poem of this name was published under the pen name of Glirastes by Horace Smith a month after the more well known poem of this name was published. Both poems of this name were inspired by accounts of the Roman historian Diodorus Siculus. The more well known poem of this name states, "Nothing beside remains" and describes, "Half sunk, a shattered visage." Name this poem that begins with the line, "I met a traveller from an antique land," a work about a king who states, "Look on my works ye mighty and despair," by Percy Bysshe Shelley.

ANSWER: "**Ozymandias**"

030-14-103-10104

5. This author wrote a "study in temperament" about a boy who steals a thousand dollars for a glorious week in New York City before jumping in front of a train. Joseph Vaillant and Jean Marie Latour establish a church in New Mexico in one of this author's novels. In the final entry of this author's "Prairie Trilogy," Jim Burden reminisces about his childhood with the Bohemian Shimerda family. Name this regionalist author of *Death Comes for the Archbishop* and *My Antonia*.

ANSWER: Willa **Cather**

190-14-103-10105

6. She wrote that man must "...get his bread with pain and sweat of face" as a "...penalty imposed on his backsliding race," in one of her "Contemplations." She wrote the line, "If ever two were one, then surely we," and also wrote, "Under thy roof no guest shall sit/Nor at thy table eat a bit." A poem in homage to her was written by John Berryman, and she wrote "To My Dear and Loving Husband" and "Upon the Burning of Our House." Name this writer, one of the first poets of the English American colonies and author of *The Tenth Muse Lately Sprung Up in America*.

ANSWER: Anne **Bradstreet** [or Anne **Dudley**]

030-14-103-10106



7. The first stages of this conflict ended with the Battle of Lade (LA-day), which quelled the Ionian Revolt. This war ended when Pausanias won at Plataea. This conflict was chronicled by Herodotus, whose *Histories* are sometimes named for it. Another battle in this war saw three hundred Spartans hold off an army for three days. Name this early fifth century BCE conflict, in which the armies of Darius and Xerxes (ZERK-zeez) attempted to conquer cities such as Athens.

ANSWER: Greco-**Persian Wars** [or equivalent answers such as **Persian invasions of Greece**; or the **Ionian Revolt** before it is read]

019-14-103-10107

8. Though he sided with the Greeks during the Trojan War, this Greek god escorts Priam to Achilles's camp in the *Iliad*. Odysseus was descended from this god, as his grandfather was Autolycus (AH-tow-LYE-kuss). Two snakes intertwined around a staff, or a caduceus, is a symbol of this deity. His mother was the eldest of the Pleiades and was named Maia (MY-uh). As a child, this god used the entrails of Apollo's cattle to fashion a lyre. Name this god depicted with winged sandals, a trickster and messenger god.

ANSWER: **Hermes** [do not accept "Mercury"]

190-14-103-10108

9. In the Cori cycle, this compound is formed in the liver. GLUT1 transports it into cells. This pyranose (PIE-rah-nose) is phosphorylated by hexokinase in the first step of the EMP pathway. Maltose consists of two monomers of it. This compound, which has only equatorial hydroxyl groups in its cyclic form, is modified to make the monomer of chitin (KITE-in). Glycogen acts as storage for this compound. Insulin responds to high blood levels of it. This compound is metabolized into two pyruvates, producing 2 ATP and 2 NADH, during glycolysis. Name this six-carbon sugar.

ANSWER: **glucose** [or **dextrose**; or **C 6-H 12-O 6**]

190-14-103-10109

10. The McLaren Vale and Barossa Valley of this country are known for their shiraz wines. This country was the site of mines in the Golden Mile of its western city of Kalgoorlie. Polish explorer Pawel Strzelecki (struh-LECK-ee) was the first man to climb this country's highest peak, Mount Kosciuszko. This country's city Alice Springs is the nearest to the rock formation known as either Uluru or Ayers Rock. Name this country that is the only one to also be a continent and whose western half is mostly made up of the Outback, which is the home of many kangaroos.

ANSWER: Commonwealth of **Australia**

023-14-103-10110

11. This king's general Sagmandia captured Gao, the capital of a neighboring empire. He employed an architect from Granada named as-Sahili and had the Sankore (sahn-CORE-eh) and Djinguereber (JING-uh-ray-bare) mosques built. Writing twelve years after this man traveled through, al-Umari claimed that his visit was still being talked about in Cairo. He allegedly flooded Cairo's gold market during his extremely lavish hajj. Name this fourteenth century ruler who served as the mansa of Mali.

ANSWER: Kankan **Musa I** [or Mansa **Musa**]

023-14-103-10111

12. Nine of these pieces appear in the *Goldberg Variations*, each with an increasing interval size. More complex types of this technique include mensuration, retrograde, and inversion. "Frere Jacques" and "Row, Row, Row Your Boat" are the most famous pieces to use this technique, in which an imitation of a melody is played some time after it is first introduced. Name this technique used in the most famous piece by Pachelbel.

ANSWER: **canon**

063-14-103-10112

13. The square of this quantity is equal to the derivative of pressure with respect to volume. This quantity equals the square root of the bulk modulus over density. In air, it increases roughly 0.6 units for each degree Celsius increase in temperature. If a fluid is irreversibly flowing at a velocity less than this number, then the fluid will speed up. Exceeding it produces a shock wave. The ratio of velocity to this quantity is the Mach number. Name this quantity equal to about 343 meters per second in air, the speed at which acoustic waves can travel.

ANSWER: **speed of sound** [or **velocity of sound** waves; prompt on **c**]

190-14-103-10113

14. Shortly before this battle began, John Keane decided to stay at Lacoste's Plantation rather than advance further. During this battle, the 44th East Essex Regiment forgot the fascines (fah-SEENZ) and ladders needed to cross the canal and scale the earthworks. At this battle, Walter Overton led the defense of Fort St. Philip, and Edward Pakenham died. Pirate Jean Lafitte aided the winning side at this battle. Name this battle, fought two weeks after the Treaty of Ghent was signed, where Andrew Jackson defeated the British in the War of 1812.

ANSWER: Battle of **New Orleans**

186-14-103-10114

15. Murray Gell-Mann originally theorized the existence of this many quarks. The active ingredient of Eskalith contains the carbonate of the element with this atomic number, which is used to treat manic disorders. Phosphorus pentachloride has this many equatorial atoms. It is the bond order of the carbon carbon bond acetylene, since it is the number of carbon-carbon bonds in alkynes (al-KINEZ). The law of thermodynamics with this number says it is impossible to cool a system to absolute zero. Give the number of hydrogen atoms in ammonia.

ANSWER: **three**

239-14-103-10115

16. During this war, Wake Island was captured without bloodshed and a mock-battle was staged to hand over a city, preventing it from falling into the hands of Emilio Aguinaldo, an indigenous resistance leader. A key battle in this war at San Juan Hill was won thanks to the efforts of Theodore Roosevelt's Rough Riders. Name this war in which the United States gained possession of the Philippines and liberated Cuba from their colonial overlord.

ANSWER: **Spanish-American** War

153-14-103-10116

17. A precursor to the use of these substances was made widespread by Edward Jenner, who used an organism that names these substances. A particular type of these substances was the subject of a fraudulent article by Andrew Wakefield. These items can use an attenuated pathogen or its components in order to stimulate the immune system, allowing it to recognize future infections from that pathogen. Name this immunological substance that is given to patients to confer immunity to a disease.

ANSWER: **vaccines**

140-14-103-10117

18. This philosopher's ideas were supported after his death by Mencius and attacked by Mozi. This man's philosophy included the idea that parent and child and ruler and minister were two of the five basic relationships. This philosopher's concept of goodness, called ren, included showing respect for elders and engaging in filial piety. Name this Chinese philosopher who worked on the Five Classics and whose sayings were collected in the *Analects*.

ANSWER: **Confucius** [or **Kongfuzi**; or **Kongzi**; or **Kongqiu**]

023-14-103-10118

19. In this play, a drunken speech is accompanied by the shouting of the phrase “OCOMOGOSIAY!” A character in this play loses money to Willy Harris through a scheme to open up a liquor store, while another declines an offer to move to Africa. In this play, Joseph Asagai makes a marriage proposal to Beneatha, and the central family moves into an all-white neighborhood. Name this play about the Younger family, written by Lorraine Hansbury.

ANSWER: A **Raisin in the Sun**

140-14-103-10119

20. In a piece by this artist, the title people stand with legs spread wide and a gun pointed at the viewer. This artist of *Eight Elvises* was shot by Valerie Solanas in 1968. This artist created a piece that was just a ripe banana, which was used on the cover of the album *The Velvet Underground and Nico*, and he created a piece consisting of thirty-two canvases depicting different cans of Campbell's Soup. Name this American artist who often mass produced his Pop Art.

ANSWER: Andy **Warhol** [or Andrew **Warhola**]

023-14-103-10120

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7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_



## Alphabet Round - Letter O

Team Name: \_\_\_\_\_

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
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19. \_\_\_\_\_
20. \_\_\_\_\_