



## CATEGORY ROUND

### American Literature: Southern Literature

Team A: What woman wrote the short story "A Worn Path"?

ANSWER: Eudora Welty

Team B: Stella-Rondo appears in what Welty short story?

ANSWER: "Why I Live at the P.O."

Tossup: One of this author's novels was adapted into a wildly successful Broadway play by Jack Kirkland. This man collaborated with photographer Margaret Bourke-White on the book *You Have Seen Their Faces*. Characters in his most famous novel include Ellie May, a girl with a cleft lip, and Grandma Lester, whom Dude runs over with his car. Name this Southern novelist of *God's Little Acre* and *Tobacco Road*.

ANSWER: Erskine Caldwell

### Mathematics: Statistics

Team B: This is a 20-second calculation question. If a normal distribution has a mean of 15 and a standard deviation of 3, what is the probability, to the nearest percentage point, that a single number taken from this distribution is greater than 18?

ANSWER: 16% [or 16/100; or 4/25]

Team A: This is a 20-second calculation question. The mean of 5 numbers is 80. When a sixth number is added to the set, the mean becomes 83. What is the sixth number?

ANSWER: 98

Tossup: This value divided by the square root of the sample size appears in the denominator of the t-value. When it is known for a population, the z-score is calculated by subtracting the mean and then dividing by this value. For a normal distribution, about 68% of observations are within the range of the mean plus or minus this value. It is the square root of the variance. Name this value which summarizes the dispersion of values in a sample.

ANSWER: standard deviation

## World History: Enemies of Rome

Team A: Name the ruler of Epirus whose namesake type of victory costs more than it is worth.

ANSWER: Pyrrhus of Epirus

Team B: Which ruler of the Arverni was defeated by the forces of Julius Caesar at the Battle of Alesia?

ANSWER: Vercingetorix

Tossup: This person's father starved a group of rebelling mercenaries in a saw-shaped canyon. This person won a battle in which he ambushed an army marching along a lakeshore, and was opposed by a general nicknamed "the Delayer." In another battle, this man used double envelopment to defeat Varro, and he eventually lost at Zama. He led a march across the Alps to attack Italy, and was later defeated by Scipio Africanus. Name this son of Hamilcar who led Carthage in the Second Punic War.

ANSWER: Hannibal Barca

## Fine Arts: Classic Movies

Team B: What 1941 movie is about detective Sam Spade involved in a search for the title valuable statue, which is in the shape of a bird?

ANSWER: *The Maltese Falcon*

Team A: What 1942 movie is about Rick Blaine helping his former lover escape the Nazis in Africa?

ANSWER: *Casablanca*

Tossup: In this film, a chorus girl jumps out of a cake to perform the song "Dream of You." The movie *The Dueling Cavalier* turns out to be a huge bomb for Monumental Pictures in this movie. In this film, silent film stars Don Lockwood and Lina Lamont become laughingstocks after the transition to "talkies" reveals that Lina cannot sing; Don performs a famous song and dance routine while splashing through the water and twirling an umbrella. Name this musical comedy starring Gene Kelly.

ANSWER: *Singin' in the Rain*

## Life Sciences: Animal Phyla

Team A: Tapeworms are in what phylum consisting of flatworms?

ANSWER: **Platyhelminthes** [or **platyhelminths**]

Team B: What phylum includes sessile creatures with a mesoglea in between two layers of cells, characteristic of sponges?

ANSWER: **Porifera**

Tossup: Larvae in this phylum are called planula. Along with some types of worms, some organisms in this phylum can undergo strobilation, an alternative to budding. Ctenophores (TEE-nuh-fours) are former members of this phylum. Members of this phylum have specialized cells that release a barb, containing toxins, to trap prey; those cells are nematocysts. Organisms in it have medusa and polyp life cycle stages and have radial symmetry. Name this animal phylum whose members include sea anemones and jellyfish.

ANSWER: **Cnidaria** [or **cnidarians**]

## World Literature: Biblical Poems

Team B: What poet ask "was Jerusalem builded here, Among these dark Satanic mills?" in "Jerusalem?"

ANSWER: William **Blake**

Team A: What poet of an elegy for Edward King wrote "On the Morning of Christ's Nativity?"

ANSWER: John **Milton**

Tossup: The "picker-up of learning's crumbs" narrates a poem by this man that describes a meeting with Lazarus. This author of "Karshish, the Arab Physician" wrote another poem in the voice of a man who blows a slug-horn after reaching a building he learned about from a "hoary cripple." In another of his dramatic monologues, the speaker speculates what Fra Pandolf might have said to the title person, who had a heart "too soon made glad." Name this author of "Childe Roland to the Dark Tower Came" and "My Last Duchess."

ANSWER: Robert **Browning** [or "**Karshish**, the Arab Physician" until it is read]

## US Government/Economics: Cities

Team A: Who defeated chief challenger Wendy Greuel to become the new mayor of Los Angeles in 2013?

ANSWER: Eric **Garcetti**

Team B: Former NBA star Kevin Johnson, who played a leading role in mediating the Donald Sterling controversy, is the mayor of what city?

ANSWER: **Sacramento**, California

Tossup: Two officials of this city were convicted of conspiracy and bribery in the Synagro Sludge scandal. A former mayor of this city took an early hit to his public reputation when exotic dancer Tamara Greene was murdered after performing at a wild party held at Manoogian Mansion. Kevyn Orr's failure to negotiate a "haircut" led this city's current mayor, Dave Byng, to file for Chapter 9 bankruptcy in 2013. Kwame Kilpatrick led what Midwestern city with a bailed-out auto industry?

ANSWER: **Detroit**

## Physical Sciences: Particles

Team B: What class of particles have half-integer spin, like electrons, and are named for an Italian-American physicist?

ANSWER: **fermions**

Team A: What particles hold quarks together through the strong nuclear force?

ANSWER: **gluons**

Tossup: The Grotthuss mechanism explains how this particle can move quickly in aqueous solutions, called this particle's "mobility". This particle is predicted to decay in ten to the thirty six years, and the simplest form of NMR spectroscopy is named for this particle. The existence of this charged particle was shown by Rutherford's gold foil experiment. The Bronsted-Lowry definition of an acid is a molecule's ability to donate one of these particles. Identify this positively charged particle found in the nucleus.

ANSWER: **proton** [or **protium**; or **H<sup>+</sup>**; or **positively charged hydrogen**; prompt on **hydrogen**]

## **World Geography: Asian Cities**

Team A: Which Asian capital contains the Cesar Pelli-designed Petronas Towers skyscraper?

ANSWER: **Kuala Lumpur**

Team B: The Bund is a historic waterfront area in what largest city proper in the world, located on the Yangtze River Delta?

ANSWER: **Shanghai**

Tossup: The Betawi people are descended from residents of this city, which is home to a mosque named after the Arabic word for "independence," Istiqlal. The government of this city also administers the Thousand Islands. The streets of this city are home to a fried rice dish called Nasi Goreng. The Dutch East India company operated out of this city when it was called Batavia. This city is the most populous in Southeast Asia. Name this largest city on Java, the capital of Indonesia.

ANSWER: **Jakarta**

## **American History: Train Accidents**

Team B: What legendary steel driving man died when competing with a steam powered hammer to build a railway tunnel?

ANSWER: John **Henry**

Team A: Emma Booth died in a train accident in 1903. She was the daughter of William Booth, the founder of what Christian charitable group?

ANSWER: **Salvation Army**

Tossup: One of these beings died in St. Thomas, Ontario, supposedly while trying to save his friend, Tom Thumb, from being hit by a train, and was stuffed and donated to Tufts University by his owner. One of these creatures at Luna Park was electrocuted in 1903, an event infamously caught on film by Thomas Edison. Another of these creatures, named Mary, was lynched after killing her abusive trainer at the Sparks World Famous circus. Name this type of animal exemplified by P.T. Barnum's "Jumbo," which grew up in the African bush.

ANSWER: **elephant**

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1. *Endless Column*
2. Echo
3. M. C. Escher
4. Enkidu
5. ergonomic
6. the "end of history"
7. Ebro River
8. elevator
9. Eritrea
10. Ralph Waldo Emerson
11. James Ensor
12. epsilon
13. Emily
14. efficiency
15. Mount Everest
16. Paul Erdos
17. Endgame
18. estrogens
19. erg
20. etching

## FINAL ROUND

1. A crucial part of these devices is made by Nichols Electronics. Thomas Campbell and Joe Steele were convicted for their role in a 1980s Glasgow war, where these items were used to transport drugs. Michael Moore reads the PATRIOT Act from one of these things in *Fahrenheit 9/11*. Borat buys one of these conveyances, but then scares some children when his bear sticks its head out the window. They often play songs like *The Entertainer* and *Turkey in the Straw* to attract customers. Name these vehicles that sell frozen treats.

ANSWER: ice cream truck [or ice cream van]

001-14-103-15101

2. One of this author's characters is infuriated to lose a literary competition to the incompetent poet Carlos Daneri. In another story, this author imagined a building containing every permutation of twenty-two characters arranged into 3,200 characters per page, with 410 pages per book. Yu Tsun narrates a story by this author that philosophizes about a labyrinth where each path represents the potential outcomes from a decision. Name this Argentinian author who wrote "The Library of Babel" and "The Garden of Forking Paths."

ANSWER: Jorge Luis Borges

190-14-103-15102

3. A text named for this concept attempts to link the converse of the word "bad" with "good." This concept's inquirers sometimes approach it with a distinction between consequentialism and a deontological version, the latter of which is supported by Kant's sense of duty. This discipline is referenced in the title of a work that introduces the naturalistic fallacy written by G.E. Moore. Name this concept that titles Baruch Spinoza's magnum opus and is the study of virtuous behavior.

ANSWER: ethics [or ethica]

033-14-103-15103

4. From 1966 to 2009, France boycotted the administrative structure of this organization, which was established by the 1949 Washington Treaty and is currently led by Danish Secretary General Anders Fogh Rasmussen. This organization's first-ever invocation of Article 5 of its charter, which provides for a collective response to an attack against one member, occurred after 9/11. Name this mutual defense alliance among the U.S., Canada, and Western Europe.

ANSWER: NATO [or the North Atlantic Treaty Organization]

019-14-103-15104

5. This being's killer dedicated the temple of Artemis Soteira, and this creature punished young people for the death of Androgeus (an-droh-JAY-uss). The son of Pasiphae, this thing slew Athenian youths on a regular basis, until it was killed by the lover of Ariadne. Using a ball of thread to find his way, Theseus slew this beast, which was located in the center of the Labyrinth at Crete. Name this creature with the head of a bull on a man's body.

ANSWER: Minotaur

052-14-103-15105

6. In this novel, Arina, a member of the aristocracy, devotedly believes in superstitions, while the feminist Kukshina plays host to Sitnikov and his two friends. The former lover of Princess X, Paul, questions the upcoming liberation of the serfs, and his brother Nikolai marries Fenechka (fuh-NESH-kuh) at this novel's end. This novel's protagonists are a young student from St. Petersburg and his friend, the first literary nihilist. Name this novel about Arkady Kirsanov and Bazarov, written by Ivan Turgenev (tur-GAIN-ev).

ANSWER: Fathers and Sons [or Otcy i Deti]

192-14-103-15106



7. This poet's lines, "Thou mastering me God! giver of breath and bread," open his poem dedicated to nuns lost in the sinking of a ship. He wrote, "There lives the dearest freshness deep down things," in another poem. Much of this poet's characteristic style imitates the alliterative-accentual verse of Old English, which he termed "sprung rhythm," as seen in "The Wreck of the Deutschland." Name this Jesuit poet of "God's Grandeur" and "The Windhover."

ANSWER: Gerard Manley **Hopkins**

121-14-103-15107

8. This man depicted his patron speaking and moving in his portrait bust of Scipione Borghese. He redecorated the Sant'Angelo Bridge and built the Scala Regia and baldachin as the architect for St. Peter's Cathedral. In one of his sculptures, an obelisk towers over the Danube, Ganges, Rio de la Plata, and Nile. He also sculpted a nun being pierced by a spear held by an angel. Name this Italian sculptor of the *Fountain of the Four Rivers* and the *The Ecstasy of Saint Theresa*.

ANSWER: Gian Lorenzo **Bernini**

030-14-103-15108

9. Thales's (THAY-leez's) theorem describes this shape inscribed in a circle, with one side as a diameter to the circle. According to the exterior angle theorem, any exterior angle of this shape is greater than any remote interior angle. Two of these shapes may not be congruent in the ambiguous case, but they are congruent if they have side-angle-side or angle-side-angle equivalence. They can have at most one obtuse angle, since their internal angles sum to 180 degrees. Name this polygon with three sides.

ANSWER: **triangle**

132-14-103-15109

10. Georges Bizet's earliest non-operatic composition, written when he was only seventeen, is a piece of this kind in C. Gustav Mahler refused to classify his *Das Lied von der Erde* as one of these compositions. One of this type of composition was initially named for and dedicated to Napoleon, but had its name changed to "Eroica," and the same composer wrote one of these compositions nicknamed "Pastoral." Beethoven wrote nine of what type of extended orchestral composition with multiple movements?

ANSWER: **symphony**

140-14-103-15110

11. The fallibility of these things is demonstrated in the "lost in the mall" experiment, which was performed by a psychologist who often testifies as to the unreliability of these things, Elizabeth Loftus. In the 1980s, Loftus denounced the craze for "recovered" versions of these things, which fueled panic over alleged Satanic abuse. Identify these phenomena of the human brain which can be retrieved from "short-term" or "long-term" storage.

ANSWER: **memories** [or **memory**]

019-14-103-15111

12. A longstanding problem concerns whether or not these objects destroy information. A region called the ergosphere surrounds these objects if they are rotating. These objects can evaporate by emitting Hawking radiation. These objects are surrounded by a boundary called the event horizon. The centers of many galaxies are probably home to "supermassive" versions of these objects. Name these astronomical objects so massive that nothing can escape their gravity.

ANSWER: **black holes**

185-14-103-15112

13. The system described by this set of statements has a conserved quantity called the Laplace-Runge-Lenz vector. One of these statements holds that a body's areal velocity is constant, while another relates the square of the sidereal period to the cube of an ellipse's semimajor axis. Isaac Newton used calculus to rigorously prove these laws, which were based on examinations of data taken by Tycho Brahe. Identify this set of three laws, named for a German astronomer, that describe how planets move.

ANSWER: **Kepler**'s laws of planetary motion

132-14-103-15113

14. Hats worn during this event are made of real or imitation goat hair. A right-wing geology student detonated an explosive at this event in 1980, injuring hundreds. This event is held on a field named for Princess Therese, whose marriage to Ludwig I was the basis for the first one. In one of its thirty-four tents, the mayor ceremonially yells "It's tapped!" after the first beer keg is opened. Name this Munich festival which takes place on the first week of a fall month.

ANSWER: **Oktoberfest**

020-14-103-15114

15. A collection of poetry written in memory of this poet by her husband is entitled *Birthday Letters*. This poet's collection *Ariel* includes "Lady Lazarus" as well as a poem in which she writes, "I have always been scared of you/With your Luftwaffe, your gobbledygoo," and tells the title character, "I'm through." In addition to that poem, "Daddy," this author wrote a novel in which Dr. Gordon administers electroconvulsive therapy on the protagonist, Esther Greenwood. Name this poet who wrote the novel *The Bell Jar*.

ANSWER: Sylvia **Plath**

030-14-103-15115

16. This man divorced his longtime wife, who was convicted of ordering the murder of James Seipei, and later married Gracha Machel, the widow of the onetime president of Mozambique. After the Sharpeville Massacre, this man became the commander of the newly formed Spear of the Nation. During the Rivonia Trial, he gave the "I am Prepared to Die" speech. This leader established the Truth and Reconciliation Commission after sharing the Nobel Peace Prize with F.W. de Klerk. He spent eighteen years imprisoned on Robben Island before winning a 1994 election that was the first to allow black voters. Name this president of South Africa who helped to end apartheid.

ANSWER: Nelson Rolihlahla **Mandela**

023-14-103-15116

17. The models from this painting were costumed by the painter like "tintypes from [his] old family album." The background of this painting includes the Dibble House, and the foreground shows people based on Byron McKeeby, the artist's dentist, and the artist's sister Nan. This painting's setting is Eldon, Iowa, where a father and daughter live together on a farm. Name this painting by Grant Wood in which a dour-looking man holds onto a three-pronged pitchfork.

ANSWER: **American Gothic**

023-14-103-15117

18. This politician noted that his top priority was "education, education, education" upon first securing high office. This "Third Way" proponent first rose through the ranks after the sudden death of John Smith. This man's government signed the Good Friday Agreement with Northern Ireland. He ceded power to his Chancellor of the Exchequer, Gordon Brown, in 2007. Name this founder of "New Labour", the British PM beginning in 1997.

ANSWER: Anthony Charles Lynton "Tony" **Blair**

190-14-103-15118

19. During embryonic development, these cells undergo axophilic migration. Camillo Golgi created a method for staining these cells. Saltatory conduction occurs between these cells. These cells undergo a depolarization, repolarization, and hyperpolarization of their membrane potential during an action potential. Glia support these cells, which come in "sensory" and "motor" types. Name these cells that have axons and dendrites and make up the nervous system.

ANSWER: **neurons** [or motor **neurons**; or sensory **neurons**; or interne**neurons**]

190-14-103-15119

20. A member of this family said his presidential campaign had "Big Mo," a reference to momentum, and used the phrase "voodoo economics" to denounce his party rival. That member of this family used the expression "a thousand points of light" to discuss civic involvement. Another member of this family was President when the Partial-Birth Abortion Ban Act, the No Child Left Behind Act, and the Patriot Act were passed. Name this family which produced the 41st and 43rd Presidents of the United States, a father-son pair.

ANSWER: **Bush**

052-14-103-15120

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