



## CATEGORY ROUND

### American Literature: Short Stories

Team A: What author of the novel *The Awakening* also wrote many short stories set in antebellum Louisiana?

ANSWER: Kate **Chopin** [or Kate **O'Flaherty**]

Team B: What American author wrote tales of the west like "The Luck of Roaring Camp" or "The Outcasts of Poker Flat"?

ANSWER: Bret **Harte**

Tossup: The last line of dialogue in this story is "And now suppose you put the chops on." A female character visits Madame Sofronie to raise money because all she has is one dollar and eighty seven cents. At the end of this story, James Dillingham Young realizes Della sold her hair to purchase a platinum watch chain. Name this short story by O. Henry in which a couple give up prized possessions to buy Christmas presents they can no longer use.

ANSWER: "The **Gift of the Magi**"

### Mathematics: Geometry

Team B: This is a 10-second calculation question. What is the angle supplementary to a 125 degree angle?

ANSWER: **55 degrees**

Team A: This is a 10-second calculation question. What is the side length of a rhombus that has perimeter 64 inches?

ANSWER: **16** inches

Tossup: The ham sandwich theorem guarantees that this process can be done to the volume of n-dimensional objects. A namesake simple root-finding method does this to two values on opposite sides of the root. A construction doing this to a line segment draws two congruent circles from the segment's endpoints, then connects the intersections. A median does this to the side opposite it in a triangle. Name this process, which is literally cutting something in half.

ANSWER: **bisection** [or cutting in **half** before mention; or same-knowledge equivalents]

## **World History: Emperors of Rome**

Team A: Name the victor at the Battle of Milvian Bridge who legalized Christianity by issuing the Edict of Milan.

ANSWER: **Constantine** I [or **Constantine** the Great]

Team B: Name the last of the "Five Good Emperors" who wrote the Stoic *Meditations*.

ANSWER: **Marcus Aurelius** Antoninus Augustus

Tossup: This man's son, who was known as "Castor," was probably poisoned by his wife, Livilla. This emperor eventually named Macro as the new head of the Praetorian Guard. This father of Drusus was in power when such people as Agrippina (ag-rip-EE-nuh) the Elder were purged by his scheming adviser, Sejanus (seh-JAH-nus). This emperor was the adoptive father of Germanicus and spent much of his later reign "retiring" on the island of Capri. During his reign, Jesus Christ was crucified. Name this second Roman emperor, the stepson and successor of Augustus.

ANSWER: **Tiberius** Claudius Nero [or **Tiberius** Julius Caesar]

## **Fine Arts: Renaissance Paintings**

Team B: A handmaid tosses a garment to clothe a newly-emerged goddess standing on a shell in what 1486 painting?

ANSWER: *The **Birth of Venus*** [or ***Nascita di Venere***]

Team A: Name the Titian painting depicting a nude goddess lounging on a bed, which was commissioned by the namesake city's Della Rovere duke.

ANSWER: ***Venus of Urbino***

Tossup: A grey individual climbs a ladder up to the broken egg-shell of a "tree-man" in this painting, whose face is the artist's. When closed, the exterior panels of this painting show the world on the third day of creation. A number of pink statues receive rivulets from a giant fountain in the background of this painting, whose right depicts a hellscape, and whose left shows Adam being introduced to Eve in the title Biblical location. Name this proto-surrealistic triptych by Hieronymus Bosch.

ANSWER: ***Garden of Earthly Delights***

## Life Sciences: DNA

Team A: What five-carbon sugar is found in the backbone of RNA, but is deoxygenated in DNA?

ANSWER: **ribose** [or deoxy**ribose**]

Team B: What TWO numbers are used to represent the different "ends" of a DNA strand?

ANSWER: **three** and **five** [or **three prime** and **five prime**; the order does not matter, but do not accept or prompt if only one answer is given]

Tossup: cAMP (CAMP) and a cyclic nucleotide with this nucleobase are important secondary messengers. A nucleoside triphosphate with this nucleobase is one of the outputs of the citric acid cycle; that triphosphate is converted to ATP by NDK. This purine has an oxygen attached to its pyrimidine ring. Three hydrogen bonds connect this nucleobase to cytosine. Name this nucleobase represented with a G.

ANSWER: **guanine** [or **G** until it is read]

## World Literature: French Novels

Team B: What novel by Albert Camus begins with Meursault not being able to remember when his mother died?

ANSWER: *The **Stranger*** [or *L'**Etranger***]

Team A: Who wrote about the law student Eugene de Ratignac in his multivolume *The Human Comedy*?

ANSWER: Honore de **Balzac**

Tossup: The protagonist of this novel sits between her husband and her future lover at a performance of Donizetti's opera *Lucia di Lammermoor*. The protagonist of this novel becomes desperately indebted to the merchant Monsieur Lheureux. Leon Dupuis has a tryst with this novel's protagonist after Rodolphe Boulanger. Name this novel about Emma, the adulterous wife of a country doctor, written by Gustave Flaubert.

ANSWER: ***Madame Bovary***

## **US Government/Economics: Politicians**

Team A: This Nevada senator is the current Senate Majority Leader.

ANSWER: Harry Mason **Reid**

Team B: Identify this junior Senator from Texas, who has focused on repealing the Affordable Care Act and may run for President in 2016.

ANSWER: Rafael Edward “Ted” **Cruz**

Tossup: In February 2010, this man declared his state was in fiscal emergency and on the same day eliminated the Department of the Public Advocate. On election day 2013, this man won re-election over Democratic challenger Barbara Buono. In 2012, he drew criticism from his own party after visiting areas affected by Hurricane Sandy with Barack Obama. In January 2014, he was accused of conspiring to create traffic jams on the George Washington Bridge as retribution against Fort Lee Mayor Mark Sokolich. Name this current governor of New Jersey.

ANSWER: Chris **Christie**

## **Physical Sciences: Fluid Mechanics**

Team B: What equation, a restatement of the principle of conservation of energy, notes that the pressure head, velocity head, and elevation head must sum to a constant?

ANSWER: **Bernoulli's** equation [or **Bernoulli's** principle]

Team A: Bernoulli's equation can be used to determine the magnitude of what force, caused because air flows more rapidly over the top of an airfoil than beneath it?

ANSWER: **lift**

Tossup: Along with fluid velocity and characteristic length, this quantity makes up the inertial forces used to calculate Reynolds's number. The void ratio is necessary to finding the bulk type of this quantity. The specific gravity is determined by comparing this quantity between a substance and a reference. Multiplying this quantity by gravitational acceleration and volume gives the buoyant force on an object in a liquid. Name this quantity symbolized rho that is defined as mass divided by volume.

ANSWER: **density**

## World Geography: Man-made Structures

Team A: Islands in the shape of a palm tree were constructed in what city, which is home to the Burj Khalifa?

ANSWER: **Dubai**, United Arab Emirates

Team B: The longest bridge in the United States crosses what lake in Louisiana?

ANSWER: Lake **Pontchartrain**

Tossup: In 1944, the plan for this non-American structure was proposed by John Lucian Savage. In 1992, 177 members of the National People's Congress voted against its construction. A monument near it features the poem "Swimming," composed by a leader who endorsed this project but never completed it thanks to the Great Leap Forward. Its construction threatened the endangered Siberian Crane and the Baiji river dolphin, and it resulted in sediment build-up near towns in the Hubei province. Name this hydroelectric dam that spans the Yangtze River.

ANSWER: **Three Gorges** Dam

## American History: American Politicians

Team B: What first female Attorney General was criticized for her handling of the Waco siege standoff?

ANSWER: Janet **Reno**

Team A: What Attorney General had namesake raids in the 1920's directed against Communists?

ANSWER: Alexander Mitchell **Palmer**

Tossup: This politician was accused of acting as a pimp while minister to Russia. The text of the Monroe Doctrine was mainly authored by this man while he was Secretary of State. This man won an election that included William Crawford as a candidate. He is the only President to follow his time in office by serving in the House of Representatives. Henry Clay agreed to serve as the Secretary of State for this President, in return for swinging the election of 1824. Name this man who used the "Corrupt Bargain" to defeat Andrew Jackson and was the first son of a President to hold the office.

ANSWER: John **Quincy Adams** [prompt on **Adams**; do not accept "John Adams"]

## Alphabet Round - Letter R

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1. Pierre-Auguste **Renoir**
2. Rodion Romanovich **Raskolnikov** [or **Rodia**]
3. **regular**
4. **Red** River of the South
5. **Rebecca**
6. **regressive** tax
7. Maximilien de **Robespierre**
8. **rate-determining** step [or **rate-limiting** step]
9. Ronald **Reagan**
10. **Ramayana**
11. Edwin Arlington **Robinson**
12. **resonance**
13. **Romanticism** [or word forms]
14. Richard **Rush**
15. **Rosetta Stone**
16. Francois-Auguste Rene **Rodin**
17. **rocs**
18. **retina**
19. Paul **Ryan**
20. Charles **Richter**

## FINAL ROUND

1. This man posited a theory of behavior that acknowledges the influence of both social factors and the environment, reciprocal determinism. His best-known experiment focused on a similar area as his work *Adolescent Aggression*. The experiment he designed involved adult collaborators who punched the objects which name the experiment, causing the study's subjects to imitate them while yelling "sockaroo!" Name this Canadian psychologist who performed the "bobo doll" experiment.

ANSWER: Albert **Bandura**

081-14-103-03101

2. The head of this company attempted to create the South Improvement Company to control its shipments. Three ships belonging to this company were destroyed in the Panay incident. A political cartoon shows a baby Teddy Roosevelt wrestling with a snake representing this entity. A series of articles about this company published in *McClure's* magazine were written by Ida Tarbell. This company was found to be in violation of the Sherman Antitrust Act, leading to its split into companies including Conoco and Chevron. Name this company headed by John D. Rockefeller.

ANSWER: **Standard Oil** Company

048-14-103-03102

3. During the Trojan War, Diomedes (die-OH-med-eez) crushed this man's hip with a stone. This man's crew saves Achaemenides (uh-kie-MEN-ih-deez) from the island of the Cyclopes. This hero kills the Rutulian king Turnus to avenge Evander's son Pallas. He visits his father in the underworld by using a golden bough after abandoning the Carthaginian queen Dido. This son of Anchises (un-KIE-seez) is celebrated as an ancient founder of Rome. Name this hero whose travels were chronicled in a namesake epic by Virgil.

ANSWER: **Aeneas**

186-14-103-03103

4. A composer for this instrument collected fifty-six pieces in *The Rhetoric of the Gods*. A famous piece for this instrument was accompanied by the lyrics "Happy, happy, they that in hell, Know not the world's despite." This instrument developed out of an Arab instrument called the "Ud" introduced in the conquest of Spain. An English composer for this instrument wrote the song "Flow My Tears" and had music described as "Semper Dolens," a pun on his name, John Dowland. Name this popular Renaissance instrument that was replaced by the guitar.

ANSWER: **lutes**

080-14-103-03104

5. The derivative with respect to particle number of a quantity named for this scientist gives the chemical potential. A law named for this scientist states that the number of constituents minus the number of phases plus two equals the degrees of freedom. For spontaneous reactions, the change in his namesake quantity is negative; that namesake quantity is calculated as enthalpy minus quantity temperature times entropy. Identify this American chemist who lends his name to a type of free energy.

ANSWER: Josiah Willard **Gibbs**

127-14-103-03105

6. One novel by this author climaxes when a falling bookcase kills Leonard Bast, who had previously had an affair with Helen Schlegel. In another of this author's novels, Lucy Honeychurch returns to Florence with George Emerson after deciding not to marry the richer Cecil Vyse. This author of *Howard's End* created Adela Quested, an Englishwoman who accuses the Indian Dr. Aziz of raping her in the Marabar Caves. Name this English author of *A Room with a View* and *A Passage to India*.

ANSWER: Edward Morgan **Forster**

080-14-103-03106

7. The Grandfather geyser field is located in this region. The Very Large Telescope is located in the Paranal (pah-rah-NAHL) Observatory in this region. The few mammal species native to this area include a variety of grey fox, Darwin's leaf-eared mice, and the viscacha (vees-CAH-chuh). Owing to El Nino, the southern portion of this desert annually flowers between September and November. This desert is rich in copper and nitrate deposits, the latter of which sparked the War of the Pacific. Name this driest hot desert in the world, located to the west of the Andes.

ANSWER: **Atacama** Desert

020-14-103-03107

8. These things are divided into monolithic and micro types, the latter of which is exemplified by the as-yet-unfinished GNU Hurd (NEW HERD). Programs request service from these things by executing a system call. A BSD-based example of these things was originally used in OS X. The Tanenbaum-Torvalds debate concerned the implementation of a type of these things for Linux. Identify this component of an operating system that serves as an interface between hardware and software applications.

ANSWER: **kernel** [prompt on **operating system**]

081-14-103-03108

9. In this novel, the state auditor Byram White is blackmailed. One character in this novel raises concerns that bricks used by the J.H. Moore company are defective and becomes a hero after his warnings come to fruition in a an accident that kills three schoolchildren. That character in this novel is advised by Sadie Burke, and Jack Burden narrates this novel. Name this novel by Robert Penn Warren about Louisiana politician Willie Stark, a character based on Huey Long.

ANSWER: **All the King's Men**

030-14-103-03109

10. Some types of these biological objects have elaiosomes (EH-lie-oh-zomes), which allow them to undergo myrmecochory (MYRRH-meh-cok-oar-ee) through ants. The radicle is the first part to emerge from this object, which contain a triploid tissue called endosperm. The outer wall of these objects is sometimes called a testa, while cotyledons forms within them. Birds, insects, and wind help disperse these items, which are an embryo surrounded by nutrients and a coat. Name this result of fertilization in flowering plants, which can be sown to grow a new plant.

ANSWER: **seeds**

140-14-103-03110

11. For Raman scattering, this person names the lines caused by the positive and negative wavelength shifts. A law named for this scientist states that the drag force on a particle in a fluid is proportional to six pi times the velocity. He is the second namesake of a set of very difficult to solve partial differential equations that describe fluid flow, which he names with Navier (NAH-vee-ey). Name this British physicist who generalized Green's theorem to relate surface integrals and volume integrals.

ANSWER: George Gabriel **Stokes**

048-14-103-03111

12. In Ray Bradbury's novel *Dandelion Wine*, Colonel Freeleigh dreams of being one of these objects. A substance made from these objects is thrown at Edgar by Heathcliff in *Wuthering Heights*. John Steinbeck's novel *In Dubious Battle* involves a strike of workers who procure these objects. Several of these objects are thrown at Gregor Samsa by his father in Franz Kafka's *The Metamorphosis*. Name this type of fruit that is tragically eaten by Adam and Eve in *Paradise Lost*.

ANSWER: **apples**

190-14-103-03112

13. One musician who played this instrument included the calypso-inspired "Saint Thomas" on his influential album titled for this instrument *Colossus*. This instrument was used to create "sheets of sound" on songs like the ballad "Naima" on the album *Giant Steps*. Another player of this instrument inaugurated bebop along with Dizzy Gillespie and was nicknamed "Bird." Name this woodwind instrument played by Sonny Rollins, John Coltrane, and Charlie Parker.

ANSWER: tenor **saxophone**

020-14-103-03113

14. A character in this story is worried after he loses the Sunday saddle of Hans Van Ripper while riding the horse Gunpowder. This story features a competition for the hand of Katrina Van Tassel that includes Abraham Van Brunt, who goes by the nickname Brom Bones. The main character of this story is a Connecticut schoolmaster who is scared by the story of a Hessian ghost. Name this story about Ichabod Crane and the Headless Horseman written by Washington Irving.

ANSWER: "The **Legend of Sleepy Hollow**"

023-14-103-03114

15. A failed conspiracy to overthrow this man was orchestrated by the Marquis of Cinq-Mars. His rival Marie de Medici was exiled to Compiègne (comp-YEN) in the "Day of the Dupes." After his death in 1642, he was succeeded by Jules Mazarin. He was criticized for allying with Protestant countries during the Thirty Years War. Identify this powerful cleric who served as Chief Minister of France under Louis XIII.

ANSWER: Cardinal **Richelieu** [or Armand Jean du **Plessis**]

145-14-103-03115

16. This philosopher discussed the painting "A Pair of Shoes" by van Gogh in his article *The Origin of the Work of Art*. He examined another German philosopher in *Kant and the Problem of Metaphysics*. In another book, he introduces the idea of a "hermeneutic circle" and discusses the relationship that human perception creates with the world, composed of the words for "to be" and "there." Name this German philosopher who explained "dasein" (DAH-sine) in *Being and Time* and attracted controversy for his Nazi sympathies.

ANSWER: Martin **Heidegger**

127-14-103-03116

17. This man's government executed leaders of the "milk strike," and he attempted to advance a new philosophy he called "universism." As Minister of Defense under Peder Kolstad, this man became notorious for putting down a strike of hydroelectric workers. After forming the National Union Party in 1933, he never won a seat in the Storting. He served as Prime Minister under Josef Terboven, who led the occupation of his country. Name this Norwegian officer who collaborated with the Nazis, and whose name has become a noun meaning "traitor."

ANSWER: Vidkun **Quisling**

014-14-103-03117

18. This man became a starting player in college after injuries to future Colorado Rockies star Todd Helton. After he threw four interceptions in a game, his coach, Jim Mora, told the media "Don't talk about playoffs." In 2003, this player referred to a teammate as "our idiot kicker who got liquored up and ran his mouth off." This man attracted attention for saying "Omaha" numerous times before snaps in the most recent NFL playoffs. He threw for a record fifty-five touchdown passes in the 2013 season. Name this quarterback of the Denver Broncos.

ANSWER: **Peyton Manning** [prompt on **Manning**]

052-14-103-03118

19. This city besieged Saguntum to break a peace. A politician who hated this city showed its proximity by spreading fresh figs on the Senate floor, and added to the end of every speech that it "must be destroyed." This city, founded by Phoenician traders, lost at Zama to Scipio Africanus after the failure of elephants under a general from its prominent Barca family. Name this loser of the Punic Wars to Rome that had forces commanded by Hannibal.

ANSWER: **Carthage** [or **Carthago**; or **Kart-hadasht**]

104-14-103-03119

20. This sculptor depicted the assassination of an Assyrian general by a widow in his *Judith and Holofernes*. This man sculpted *St. Mark* and *St. George* for the Orsanmichele. He created an equestrian statue of Erasmo of Nami known as *Gattamelata*, and he also sculptured a boy with his foot on the head of the slain Goliath. Name this Renaissance artist famous for his bronze, nude *David*.

ANSWER: **Donatello** [or Donato di Niccolo di Betto **Bardi**]

227-14-103-03120

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## Alphabet Round - Letter R

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

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