



CATEGORY ROUND

American Literature: Socially Conscious Literature

Team A: What Upton Sinclair novel shows Jurgus Rudkis's horror at the Chicago meatpacking industry?

ANSWER: *The Jungle*

Team B: What Richard Wright novel about the murderous black man Bigger Thomas was meant to inspire racial protest?

ANSWER: *Native Son*

Tossup: This novel features the real-world facility of Weedpatch Camp. Near its end, Al announces that he will marry Agnes Wainwright while in a boxcar. In its third chapter, a truck runs into and flips over a plodding turtle, which the protagonist picks up. In this novel, Rose of Sharon breastfeeds a starving stranger, and a policeman kills retired preacher Jim Casy, who meets Tom in Oklahoma. Name this novel about the Joad family's move to California, written by John Steinbeck.

ANSWER: *The Grapes of Wrath*

Mathematics: Expected Value (All questions in this round are 20 seconds)

Team B: A spinner is divided into four equal portions with values marked -2, -1, 0, and 5. What is the expected value of one spin?

ANSWER: 0.5 [or 1/2]

Team A: A certain raffle sells 1000 tickets, each for \$20. One winner is drawn, who will receive \$15,000. What is the expected value of buying a ticket?

ANSWER: -\$5 [or lose five dollars; or equivalents for "lose"]

Tossup: The expected value of this operation applied to a random variable X minus this operation applied to the expected value of X yields the variance. One of the simplest data fitting algorithms minimizes the sum of this function of the error. Every number can be represented by a sum of four of these according to a theorem of Lagrange's. A number is said to be this-free if it contains no repeated prime factors. Identify this term that also applies to a shape with four equal orthogonal sides.

ANSWER: squares

World History: Early Christianity

Team A: What 325 ecumenical council rejected Arianism and issued a namesake "creed?"

ANSWER: Council of **Nicea**

Team B: What emperor persecuted Christians and divided the empire into four parts?

ANSWER: **Diocletian** [or Gaius Aurelius Valerius **Diocletianus** Augustus]

Tossup: This emperor had Cornelius Sulla executed after making the notorious Tigellinus his praetorian prefect. During his reign, Suetonius Paulinus won the Battle of Watling Street, which ended Boudicca's Revolt in Britannia. This emperor, who killed his mother Agrippina, had the writers Lucan and Seneca killed for their involvement in the Pisonian Conspiracy. He constructed the Domus Aurea, a magnificent "golden house" that he apocryphally lit by setting Christians on fire. Name this Roman emperor known for fiddling during the Great Fire.

ANSWER: **Nero** Claudius Caesar Augustus Germanicus

Fine Arts: Kissing

Team B: What sculptor depicted Paolo and Francesca in his work, *The Kiss*?

ANSWER: Auguste **Rodin**

Team A: In an Alfred Eisenstaedt photo, a nurse in Times Square is kissing a man of what occupation?

ANSWER: a **soldier** [or a **sailor**]

A photograph from this country shows a young man suddenly kissing his girlfriend amidst bystanders next to a hotel. A pioneer of street photography from this country published the collection *The Decisive Moment*. Another photographer from this country created a neat "revolving self-portrait" and built himself a hot air balloon called the *Giant*. It was also home to an experimenter who put light-sensitive silver iodide on a thin copper sheet to create the "daguerreotype." Name this country home to Nadar, Robert Doisneau, and Henri Cartier-Bresson.

ANSWER: **France**

Life Sciences: Hormones

Team A: Name the class of plant hormone produced in the roots that promotes shoot growth and cell division.

ANSWER: **cytokinins**

Team B: Name the hormone produced by a stressed plant that inhibits cell growth and promotes seed dormancy.

ANSWER: **abscisic acid**

Tossup: ZEA is a fungal compound that imitates these hormones, whose receptors are activated by bisphenol A. These compounds' receptors are selectively modulated by raloxifene and tamoxifen. Their levels are decreased by anastrozole because they require aromatase for their production. These compounds, which contain eighteen carbons and are derived from cholesterol, are secreted from the ovaries along with progesterone. Name this hormone family, important for sexual development in women.

ANSWER: **estrogens** [prompt on **sex hormones**; prompt on **steroid** hormones]

World Literature: Russian Novels

Team B: What Lermontov novel is about Pechorin, a Byronic hero and superfluous man?

ANSWER: A **Hero of Our Time** [or **Geroy nashevo vremeni**]

Team A: What Fyodor Dostoyevsky novel is about the epileptic Prince Myshkin?

ANSWER: *The* **Idiot** [or **Idiot**]

Tossup: One character in this novel, who owns a dog named Gray, is shot after collapsing while marching and is named Platon. Another character's marriage prospects are thwarted by her seduction by Anatole. Much of this novel is a series of digressions about the author's theories of history. This novel ends as Natasha Rostova marries the protagonist, Pierre Bezukhov, who had earlier participated in the Battle of Borodino. Name this long novel that includes an account of Napoleon's invasion of Russia, by Leo Tolstoy.

ANSWER: **War and Peace** [or **Voyna i Mir**]

US Government/Economics: POLITICAL SOUNDBITES

Team A: What unfortunately-worded phrase did Mitt Romney use in the second 2012 debate to represent his efforts in diversifying his cabinet as governor?

ANSWER: "**binders full of women**"

Team B: What Republican candidate stumbled in naming a third government agency he would axe during a debate in the primaries?

ANSWER: James Richard "Rick" **Perry**

Tossup: Lane Turner wrote a song responding to this statement in which he described his "two rugged hands." Similar to a controversial speech given by Elizabeth Warren in 2011, this statement was uttered during a campaign stop in Roanoke. It was reversed in the motto of Day 2 of the RNC and refers back to a comment about "roads and bridges." Name this soundbite of Barack Obama claiming that "if you've got a business," you received help from the government along the way.

ANSWER: "If you've got a business, **you didn't build that**" [or "**We Built It**" until "Warren" is read]

Physical Sciences: Physical Values

Team B: Name the quantity that is equal to internal energy minus the product of temperature and entropy.

ANSWER: **Helmholtz free energy**

Team A: The change in internal energy is equal to the work plus the amount of this transferred.

ANSWER: **heat**

Tossup: Pure species are ignored during the computation of this value because they have no activity. The change in Gibbs free energy is equal to negative RT times the natural log of this value. Comparing this value to the reaction quotient is used to apply Le Chatlier's law, and this quantity is usually calculated as products over reactants. Name this quantity used to characterize reactions in which the forward and reverse rates are equal, usually symbolized K.

ANSWER: **equilibrium** constant [or **mass action** constant; accept **K** before it is read; accept **reaction quotient** or **Q** before it is read]

World Geography: Park Places

Team A: What Moscow amusement park is named for the Soviet author of *The Lower Depths*?

ANSWER: Gorky Park

Team B: The first LEGOLAND theme park was built in 1968 in Billund in what country?

ANSWER: Denmark

Tossup: The Pierres du Niton are two prominent rocks that can be found in this city's harbor. The Jet d'Eau is located in this city and is the world's tallest fountain. Ariana Park is the location of this city's Palace of Nations, which serves as the headquarters of the ECE and IAEA. This city is located at the junction of the Rhone River and its namesake lake. Name this Swiss city that is the home of the World Health Organization and the Red Cross.

ANSWER: Geneva

American History: Southern Politicians

Team B: Name the President and former Texan Senator who said, "We have lost the South for a generation" after signing the 1964 Civil Rights Act.

ANSWER: Lyndon Baines Johnson [or LBJ]

Team A: Name the Senator and Jackson's first Vice President who defended nullification in his *South Carolina Exposition and Protest*.

ANSWER: John Caldwell Calhoun

Tossup: This man wrote a 1500-page history of his later political life while living on the estate of Sarah Ellis Dorsey. He supported a southern transcontinental railroad as Secretary of War for Franklin Pierce. His vice-president gave the Cornerstone Speech, which argued that the new constitution was founded on the conviction slavery was a moral good. He had plans to flee to Havana when his capital city was about to be taken by Ulysses Grant. Name this only president of the Confederacy.

ANSWER: Jefferson Finis Davis

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1. elevators
2. eagles
3. elephants
4. elegy [or elegies]
5. egg [or Fabergé eggs; prompt on ellipsoid]
6. eugenics
7. electric dipole moment
8. electrum
9. Ephesus
10. price elasticity of demand
11. Egdon Heath
12. the Eddas [or Eddur]
13. Echinodermata [or Echinoderms]
14. United States Department of Education
15. binding energy
16. Federal Democratic Republic of Ethiopia [or Ityop'iya Federalawi Demokrasiyawi Ripeblik]
17. “Eroica”
18. Elektra
19. Ember
20. Recep Tayyip Erdogan

FINAL ROUND

1. This number divided by four is the sum of the sequence beginning one minus one third plus one fifth minus one seventh. The sum of the squares of the reciprocals of the natural numbers is equal to one sixth the square of this number. Archimedes approximated this value by calculating the area of a regular 96-gon. This number is the period of tangent of x and half the period of sine of x . It is sometimes approximated as $22/7$. Name this number that is the ratio of a circle's circumference to its diameter.

ANSWER: **π** [prompt on **3.14**159; prompt on **22/7** before it is read]

131-13-81-18101

2. In one of this man's stories, Benjamin Driscoll rides a motorcycle across a planet planting trees. He also wrote about a robotic house that keeps running long after a nuclear attack has killed its inhabitants. That story, "There Will Come Soft Rains," was included in this man's *Martian Chronicles*. Another book by this author centers on a fireman who is tasked with memorizing the Book of Ecclesiastes, named Guy Montag. Name this science fiction author of *Fahrenheit 451*.

ANSWER: Ray **Bradbury** [or Ray Douglas **Bradbury**]

149-13-81-18102

3. ?In one painting by this artist, a large red curtain hangs from the wooden ceiling above the title woman, who is barefoot and prone in a dark pink dress. This painter of *Death of the Virgin* showed three men pointing towards a character who is illuminated by a ray of light and intently counting coins in his *The Calling of St. Matthew*. A man journeying to Damascus is pinned on the ground by divine light and is near a large horse in his *The Conversion of St. Paul*. For 10 points, name this Italian Baroque painter whose drastic changes in illumination across a canvas were known as "tenebrism."

ANSWER: **Caravaggio** [or Michelangelo **Merisi**]

019-13-81-18103

4. One of this composer's symphonies has an extra movement marked "Feierlich" and quotes the main theme of Brahms's third symphony in its opening *Lebhaft* movement. He never completed his "Zwickau" Symphony, but included "The Poet Speaks" and "Traumerai" among his *Scenes from Childhood*. The poems of Adolph Boettger inspired his first symphony, nicknamed the "Spring." Name this German composer married to Clara Wieck, who composed the "Rhenish" Symphony.

ANSWER: Robert **Schumann**

192-13-81-18104

5. The states of this empire participated in ritual battles called Flower Wars. This empire was consolidated with two alliances arranged under the rule of Itzcoatl (ITS-coh-AW-tul). After the death of one of their rulers, the people of this empire successfully drove invaders from their capital in "La Noche Triste." This empire had its capital at Tenochtitlan (TEN-ok-TEET-lan) and was led by Montezuma. Name this Mesoamerican empire conquered by the Spanish under Hernan Cortes.

ANSWER: **Aztec** Empire

014-13-81-18105

6. This author based his character Mark Rampion on his friend D. H. Lawrence. He depicted himself as Philip Quarles in that same novel, *Point Counter Point*. He wrote a novel in which Podsnap's Technique speeds up reproduction and people regularly use the drug soma. That novel by this author takes place in the "year of Our Ford 632." Name this English author who wrote about a dystopian future in *Brave New World*.

ANSWER: Aldous **Huxley** [or Aldous Leonard **Huxley**]

023-13-81-18106

7. Activation frames are stored in this type of data structure. Adding and removing those frames is called winding and unwinding, respectively, and this stores memory concerning a program's subroutines. Programs such as Java have a "peek" function which allows the top value in one of these structures to be accessed without being removed. The most basic operations on this structure are "push" and "pop." Name this last-in-first-out data structure.

ANSWER: **stack** [or call **stack**]

121-13-81-18107

8. One example of this substance was placed on an oak tree by a son of Athamas and Nephele named Phrixus after he was flown from Thessaly. A vehicle shaped like a giant cup of this substance was used by Heracles to reach the Hesperides. Nathaniel Hawthorne added to a Greek myth about this substance, claiming that a daughter of the Lydian king turned into it as part of his reward for saving the satyr Silenus. Zeus appeared as this substance to impregnate Danae. Name this precious substance which appeared with King Midas's cursed touch.

ANSWER: **gold** [accept **golden fleece** during the first sentence]

104-13-81-18108

9. Karin intentionally mutilates herself in one of this director's rare color films, *Cries and Whispers*. In another of his works, a nurse takes care of an actress who has decided to stop talking. This director of *Persona* dramatized a professor's memories while making a trip to receive an award in *Wild Strawberries*. Antonius Block plays chess with Death in this director's hallmark film. Name this Swedish director of *The Seventh Seal*.

ANSWER: Ingmar **Bergman**

192-13-81-18109

10. James Meade claimed that bees pollinating flowers was one of these situations. These will be resolved if property rights are clearly defined and transaction costs are low, according to Coase's Theorem. The efficient equilibrium is different than the market equilibrium as a result of these situations, but the market equilibrium can become efficient by assessing a Pigouvian tax. Common resources often result in positive ones, which can lead to many free riders. Examples include the overuse of antibiotics or pollution. Name these economic "spill-overs" in which a cost or benefit of a good is transferred to someone who doesn't purchase it.

ANSWER: **externalities** [or **externality**; or **spillover** before mention]

190-13-81-18110

11. Conductivity times the electric field give the current type of this quantity. The square root of bulk modulus over this quantity gives the speed of sound in a fluid. Also, in fluids, this quantity times gravitational acceleration times height yields pressure. At room temperature, osmium has the highest value for it. It must be smaller for an object in a fluid than the fluid it is in for the object to float. Name this physical quantity equal to mass per unit of volume.

ANSWER: **density** [prompt on **rho**]

104-13-81-18111

12. This author created a story-within-a-story in which Richard and Coco work out in a gym near doctor Alberto de Quinteros. In another of his novels, the zealous Counselor warns of the devil's influence and raises an army in Canudos. He fictionalized himself in a book interspersed with radio soap opera excerpts by Pedro Camacho, whose narrator falls in love with a woman fifteen years older than him. Name this author of *The War of the End of the World* and *Aunt Julia and the Scriptwriter*, a Peruvian who won the 2010 Nobel Prize in Literature.

ANSWER: Jorge Mario Pedro **Vargas Llosa**, 1st Marquis of Vargas Llosa [or Jorge Mario Pedro **Vargas Llosa**, Primer Marques de Vargas Llosa]

104-13-81-18112

13. A group of photographs of this battle known as the Magnificent Eleven were taken by Robert Capa. The earliest fighting in this battle occurred with Operation Deadstick, which used glider borne forces to capture a key pair of bridges. This battle was given the codename Operation Overlord, and began with coordinated amphibious assaults on beaches named Gold, Juno, Utah, Omaha, and Sword. Name this Allied invasion of occupied France during World War II that began on D-Day.

ANSWER: **Normandy** Invasion [accept equivalent answers; accept Operation **Overlord** before mentioned; accept **D-Day** before mentioned]

015-13-81-18113

14. The grammarian Servius wrote a commentary on this poet's works, which include a four-book farming manual in epic meter, the *Georgics*. Christians believed he foretold the coming of the Messiah in the fourth of his *Eclogues*. The hero of his most famous poem reaches Carthage after a frightening storm, where he meets Queen Dido. In that poem, Juno conspires to stop a Trojan prince from becoming the ancestor of the Romans. Name this ancient Roman poet of the *Aeneid*.

ANSWER: **Vergil** [or Publius **Vergilius** Maro]

080-13-81-18114

15. Shane Smith was responsible for organizing what some labeled a stunt in this country that also involved correspondent Ryan Duffy. The leader of this country was told "you have a friend for life" by a person who claims that leader said "I don't want to do war." This country was visited in February 2013 by a documentary crew for the HBO series "VICE," as well as some members of the Harlem Globetrotters and a former Chicago Bull. Name this country that was visited by Dennis Rodman, who met with its leader Kim Jong-Un.

ANSWER: **North Korea** [or **Democratic People's Republic of Korea**; or **DPRK**; or **Choson** -minjujuui-inmin-konghwaguk; prompt on **Korea**; do not accept "Republic of Korea"]

023-13-81-18115

16. According to a popular *midrash*, a coal burned this man's tongue as a child, resulting in his shyness and stutter. In Scripture, this man performs the scientifically-impossible task of crushing gold into powder and dissolving it. This father of Gershom died on Mount Nebo, in part because he struck a rock to produce water against God's command. Zipporah the Midianite married this prophet, a brother of Miriam and Aaron who saw God in a burning bush. Name this man who led the enslaved Jews out of Egypt and received the Ten Commandments.

ANSWER: **Moses** [or **Moshe**; or **Musa**]

104-13-81-18116

17. This city is the site of a restaurant that only sells fried chicken and doughnuts called Federal Donuts. The oldest ice cream company in the US is this city's Bassetts Ice Cream, which has a location in this city's Reading Terminal Market. Craig Laban ran a project that found the best vendor in this city of a certain dish to be John's Roast Pork. That dish often named for this city includes melted thinly-sliced ribeye beef topped with Cheez Whiz in a sandwich. Name this city known for its cheese steaks.

ANSWER: **Philadelphia** [or **Philly**]

023-13-81-18117

18. This city's mayor Eugene Schmitz organized a Committee of Fifty following a large natural disaster here. This city experienced the White Night riots following a sentencing in a trial over the killing of George Moscone. That trial about murders in this city included the introduction of the Twinkie defense for Dan White. The Haight-Ashbury district in this city experienced the Summer of Love in 1967, the same year it elected as a city supervisor the openly gay Harvey Milk. Name this city in Northern California.

ANSWER: **San Francisco**

023-13-81-18118

19. One side in this battle gained a strategic advantage by removing espolones in advance of the fight. The victorious side in this battle had a gap in its line held by reserves under Alvaro de Bazan. Augustino Barbarigo was outflanked in this battle by the forces of Mahomet Sirocco. The losing commander's head was displayed on a pike in this battle that involved forces under Uluj-Ali and Ali Pasha losing to Andrea Doria and Don John of Austria. Name this 1571 naval battle in which the Holy League fleet defeated the Ottomans.

ANSWER: Battle of **Lepanto**

023-13-81-18119

20. Tendons attached to the muscles that control this body part are injured in De Quervain's syndrome. Stephen Jay Gould wrote an essay about a body part in pandas that resembles this human part but is actually a modified radial sesamoid bone. This body part is moved by the flexor pollicis longus. Some genetic disorders cause these to have the potter's or murder's morphology. The first metacarpal is located in this body part. Some people have a hitchiker's one. Name this first and opposable digit of the hand.

ANSWER: **thumb**

001-13-81-18120

Alphabet Round - The Letter E

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12. What items of Icelandic literature, in "poetic" and "prose" segments, are our main source of Norse mythology knowledge?
13. What phylum contains sea stars, sea urchins, and other creatures with pentaradial symmetry?
14. What Cabinet department, a target of many Republican Presidential candidates, launched the "Race to the Top" to disburse funds under current leader Arne Duncan?
15. What quantity's "binding" type is higher for iron than for any other element?
16. What Amharic-speaking present-day country is home to many stone stelae erected by the Kingdom of Axum?
17. What nickname was given to Beethoven's 3rd symphony, which depicts an anonymous hero instead of its original dedicatee, Napoleon?
18. What Richard Strauss opera is named for a sister of Orestes who also names the female equivalent of Freud's Oedipus complex?
19. What special attack is the lowest-level Fire-type move learned by Charmander in the *Pokemon* video game series?
20. What member of the Justice and Development Party is the current Prime Minister of Turkey?

Alphabet Round - The Letter E

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Alphabet Round - The Letter E

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