



## CATEGORY ROUND

### American Literature: The Nineteenth Century

Team A: What author wrote the stories "The Encantadas" and "The Piazza"?

ANSWER: Herman Melville

Team B: What Melville story is about a copyist who refuses to work with the reply, "I would prefer not to"?

ANSWER: "Bartleby, the Scrivener"

Tossup: This novel opens by describing a rosebush outside a prison door, which another character claims she was plucked from when asked about her origins. The protagonist of this novel is married to the crippled doctor Roger Chillingworth and has an illegitimate child named Pearl. The protagonist of this novel has an affair with the minister Dimmesdale and is forced to wear an article of clothing. Name this novel about Hester Prynne, written by Nathaniel Hawthorne.

ANSWER: *The Scarlet Letter*

### Mathematics: Operations

Team B: This is a 20-second calculation question. Express the cotangent of 30 degrees in simplest form.

ANSWER: the square root of 3 [or radical 3]

Team A: This is a 20-second calculation question. If the sine of a first-quadrant angle is the square root of one fifth, what, in simplest terms, is the cosine of that angle?

ANSWER: 2 over square root of 5 [or 2 times the square root of 5, over 5]

Tossup: Taking this operation on lambda times the identity minus A yields the characteristic polynomial. The inverse of A is equal to one over this function of A times the classical adjoint, and this function is used to find whether a particular linear transformation is invertible. This alternating multi-linear operation is used to solve systems of linear equations via Cramer's rule. Name this operation on a matrix denoted by vertical bars, which for a two-by-two matrix is equal to a d minus b c.

ANSWER: determinant

## **World History: Monarchs**

Team A: What Castilian mother of Charles V was confined to a nunnery for insanity?

ANSWER: **Joanna the Mad** [or **Juana la Loca**]

Team B: What king of France was the dauphin who took the throne with the help of Joan of Arc?

ANSWER: **Charles VII** of France

Tossup: A king of this name attempted to divide his kingdom through the Ordinatio Imperii (or-din-AH-tee-oh imp-AIR-ee-ee). Three sons of that king with this name later split up the kingdom by the Treaty of Verdun. This name was held by a king who was captured in the Battle of Fariskur (FAH-riss-kor) and died in Tunisia after starting a second expedition towards the Holy Land. This name belonged to a monarch who led the Seventh and Eighth Crusades and was the only French king to be canonized. Identify this name belonging to a French saint and seventeen other French kings.

ANSWER: **Louis** [or **Louis I**; or **Louis IX**]

## **Fine Arts: American Landmarks**

Team B: What Art Deco skyscraper designed by Shreve, Lamb, and Harmon was eclipsed in 1971 as the world's tallest building by the World Trade Center in the same city?

ANSWER: **Empire State** Building

Team A: Joseph Strauss, Irving Morrow, and Charles Ellis collaborated on what International Orange-colored landmark north of San Francisco?

ANSWER: **Golden Gate** Bridge

Tossup: The competition for designing what became this monument was overseen by George Howe. This monument was built by the MacDonald Construction Company and used the Pittsburgh-Des Moines Steel Company for its stainless steel exterior. This monument was one of the first solo designs done by Finnish architect Eero Saarinen. Underneath this monument is the Museum of Westward Expansion. Name this 630-foot tall and 630-foot wide catenary arch located next to the Mississippi River in St. Louis.

ANSWER: **Gateway** Arch

## Life Sciences: Glands and Organs

Team A: What endocrine gland in the brain produces melatonin?

ANSWER: **pineal** gland

Team B: What largest mammalian organ is a part of the integumentary (in TEG you ment urr ee) system?

ANSWER: **skin**

Tossup: This organ is converted into a surrogate urinary bladder in the Mitrofanoff procedure. A "meso" form of this organ functions primarily as a lymphatic structure. Darwin related this organ's function to the cecum's in animals, and defects in this organ have been shown to increase *C. difficile* infection rates. The Alvarado score can indicate defects in this organ, and pain at McBurney's point is often used to indicate that this organ is inflamed. Identify this worm-shaped, possibly vestigial, organ that is connected to the colon and is surgically removed when swollen.

ANSWER: vermiform **appendix** [or cecal **appendix**; or **vermix**]

## World Literature: French Literature

Team B: Name the author and lover of Simone de Beauvoir who wrote *Nausea* and *The Wall*.

ANSWER: Jean-Paul Charles Aymard **Sartre**

Team A: Name the poet who declared the "hypocrite reader" to be his brother in his poetry collection *Les Fleurs du Mal*.

ANSWER: Charles Pierre **Baudelaire**

Tossup: In this book, a character becomes a clown after being drugged in an opium den by a police officer. This novel's main character is mistaken for a bank robber by Inspector Fix and he wins his bet when he realizes he forgot to adjust for crossing the International Date Line. The protagonist saves a woman from being sacrificed in India and is served by his valet Passepartout (pass-port-too). Name this Jules Verne novel in which Phileas Fogg circumnavigates the globe.

ANSWER: ***Around the World in Eighty Days*** [or *Le tour du monde en quatre-vingts jours*]

## US Government/Economics: Politicians' Kids

Team A: What current Mayor of New York has a daughter named Chiara who has struggled with substance abuse issues?

ANSWER: Bill **de Blasio** [or Warren **Wilhelm** Jr.]

Team B: What American politician is married to an English professor named Jill and has a son named Beau who served in the Delaware National Guard?

ANSWER: Joseph **Biden** Jr.

Tossup: This politician's daughter directed the Vietnam War drama *The Last Full Measure*. In 2011, President Obama sent this man on a diplomatic mission to Sudan, in which he proposed a peaceful implementation of South Sudan's independence referendum in exchange for removing Sudan from the list of state sponsors of terrorism. He was attacked in the controversial "swiftboat ads" which questioned his service record in the Vietnam War, eight years before he was nominated to replace Hillary Clinton. For 10 points, name this current U.S. Secretary of State.

ANSWER: John **Kerry**

## Physical Sciences: Lonely Electrons

Team B: An atom loses or gains electrons so its outermost shell has an octet when it participates in what kind of bond?

ANSWER: **ionic** bond

Team A: Lone pairs are examples of electrons not participating in a bond that are located in what outermost shell?

ANSWER: **valence** shell

Tossup: The point group for this molecular geometry has a symmetry order of twenty-four and is called T<sub>d</sub>. This geometry is present in every carbon atom of cyclohexane (SIKE-lo-HECKS-ain), but none of the carbon atoms of benzene. The polyatomic ions sulfate and phosphate have this geometry. All alkanes have this geometry, and although it is not bent, molecules with this geometry have bond angles of 109.5 degrees. Identify this geometry with four attached atoms and no lone pairs, which is the geometry of methane.

ANSWER: **tetrahedral** geometry

## World Geography: Shipwrecks

Team A: In 1994, 852 people died when the MS *Estonia* sank in this sea while traveling to Stockholm.

ANSWER: **Baltic** Sea

Team B: In 1966, the *Heraklion* sank while traveling in this sea between Crete and Piraeus in Greece.

ANSWER: **Aegean** Sea

Tossup: Over fifty people died on this river during the 1989 *Marchioness* disaster. Others were killed when the sea flooded this river's Canvey Island. The area of it known as the Tideway is downstream from Teddington Lock. The artificial Jubilee River contains this river's overflow and was named for the Diamond Jubilee. Pollution in this river reached alarming levels in the 1858 Great Stink, and it has been blamed for giving Prince Albert his fatal case of typhoid. Name this longest river entirely in England, which flows through London.

ANSWER: River **Thames**

## American History: Assassinations

Team B: Which president was the target of assassination attempts by Lynette “Squeaky” Fromme and Sara Jane Moore?

ANSWER: Gerald Rudolph **Ford**, Jr. [or “Jerry” for Gerald; or Leslie Lynch **King**, Jr.]

Team A: Which man shouted that “I am a Stalwart, and Arthur is president now!” after shooting James Garfield in 1881?

ANSWER: Charles **Guiteau**

Tossup: This location is currently part of a historic site with the nearby Petersen House. Major Henry Rathbone was stabbed at this location by a knife-wielding assailant. Audience members laughed in this building after a line about a "sockdologizing old man-trap" was delivered. During a performance of the comedy *Our American Cousin* in this building, a man shouted "Sic semper tyrannis!" after jumping onto the stage. Name this theater in Washington D.C. where John Wilkes Booth assassinated Abraham Lincoln.

ANSWER: **Ford's** Theatre

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1. nickel [or Ni]
2. Napoleon Bonaparte [or Napoleon I]
3. Nessun Dorma
4. Nicholas Nickleby
5. nematodes [or nematoda]
6. Nash equilibrium
7. Richard Nixon
8. nose [or The Nose]
9. Nicene Creed
10. negative
11. Noh theater
12. Nicaragua
13. Nova Scotia
14. Norway
15. New Horizons
16. Pablo Neruda
17. neutrino
18. Northanger Abbey
19. Numidia
20. The Night Watch

## FINAL ROUND

1. Emile Durkheim's *Elementary Forms of the Religious Life* used a test of social role to distinguish this phenomenon from religion. It was the last of three phenomena studied "among the Azande" (uh-ZAHN-day) by Edward Evans-Pritchard, who outlined a type of "thinking" known by this term, and it was grouped with "science and religion" in a Bronislaw Malinowski paper. According to James Frazer, this phenomenon always precedes religious belief. Identify this phenomenon of manipulating the natural world with incantations and rituals.

ANSWER: **magic** [or word forms]

019-14-103-01101

2. At the start of his political career, this future President joined the KKK and worked in the political machine of boss Thomas Pendergast. This president called the "Turnip Day Session" of Congress and used an executive order to desegregate the Army. He went on the "Whistle Stop Tour of America" to win the last Presidential election in which four candidates each exceeded two percent of the vote. The *Chicago Tribune* claimed that this "Fair Deal" proponent lost to Dewey in the election of 1948. Name this successor to FDR, who chose to bomb Nagasaki and Hiroshima.

ANSWER: Harry S. **Truman**

149-14-103-01102

3. The protagonist of this play says that a man is "not the type that goes for jasmine perfume." It begins with a former English teacher coming to live with relatives at the "Elysian Fields." At the end of this play, the protagonist is led off to a mental institution while saying she has always depended on the kindness of strangers. In one scene, the brutish antagonist screams the name of his wife, Stella. Name this Tennessee Williams play about Stanley Kowalski and Blanche DuBois.

ANSWER: A **Streetcar Named Desire**

052-14-103-01103

4. This value can be found by subtracting the initial state from the maximum of the transition state on some diagrams. An equation that sets this value equal to negative R-T times the natural log of the ratio between the equilibrium constant and the frequency factor is named for a Swedish chemist Svante Arrhenius (SUH-vahn-tuh uh-REE-nee-us). Catalysts lower this value for chemical reactions. It is usually represented as "E sub a." Name this value defined as the minimum energy required for a chemical reaction to occur.

ANSWER: **activation** energy [or **E** sub **a** until it is read]

084-14-103-01104

5. Constantin Brancusi's sculptures with this title are shaped nearly like the block-shaped material that they were sculpted from. Another sculpture of this name shows one person holding a book in his left hand and covering the face of the other. A sculpture of this name depicting Paolo and Francesca and originally meant for *The Gates of Hell* was made by Auguste Rodin. Give the common title of these artworks, which all show two people engaged in a display of affection.

ANSWER: *The* **Kiss**

140-14-103-01105

6. This composer's short piano piece *Albumblatt* was rediscovered and given its premiere in 2012. This man's fourth symphony includes variations of a theme from Bach's *Cantata No. 150*. His *Four Serious Songs* were written in memory of Clara Schumann, with whom this composer was in love. This composer included student drinking songs in his *Academic Festival Overture*. Name this German composer who composed a famous lullaby.

ANSWER: Johannes **Brahms**

030-14-103-01106



7. In the first of his *Plays Pleasant*, this author wrote about the Swiss man Bluntschli, who seeks refuge in the home of Bulgarian war hero during the Serbo-Bulgarian War. This author created a Greek scholar named Adolphe Cusins who inherits a munitions company from Andrew Undershaft. In his best-known play, Colonel Pickering bets Henry Higgins that Eliza cannot become a woman of manners. Name this Irish dramatist of *Arms and the Man*, *Major Barbara*, and *Pygmalion*.

ANSWER: George Bernard **Shaw**

190-14-103-01107

8. One of this author's novels opens with Pete helping his friend in a fight, though his seduction of Jimmie's sister, the title character, leads to her prostitution and death. One of this author's protagonists takes up the flag during a seemingly suicidal charge of the 304th Regiment. This author of *Maggie*, *A Girl of the Streets* is best known for a novel about the initially-cowardly Civil War soldier Henry Fleming. Identify this American author of *The Red Badge of Courage*.

ANSWER: Stephen **Crane**

233-14-103-01108

9. Julius Caesar described seeing men dyed with woad while twice doing this action. The last successful instance of this feat was followed by the Harrying of the North and included a battle that featured the death of several housecarls. Napoleon envisioned accomplishing this feat with balloons and a massive tunnel, and Operation Sea Lion was a failed German attempt to do this action. It was most recently performed by the king who ordered the creation of the Domesday Book. Identify this kind of military conquest which gave William the Conqueror his name.

ANSWER: **invading Britain** [or **invading England** or other equivalents]

141-14-103-01109

10. Allan Maxam and Walter Gilbert developed a method for performing this process in 1977. Frederick Sanger won his second Nobel Prize for devising the "chain-termination method" for performing this action, which uses ddNTPs (d-d-N-T-Ps). Craig Venter's Celera used the "shotgun" method of performing this action to accomplish it much faster than the Human Genome Project could. Name this procedure that determines the order of nucleotides in the molecule that encodes genetic data.

ANSWER: DNA **sequencing** [or obvious equivalents]

080-14-103-01110

11. In the center of this painting, a man with a brown bandanna can be seen looking upward toward the center of the painting. The towers of Notre Dame appear on the right side of this painting covered by white smoke, and a bearded man wearing a scarf and top hat can be seen holding a rifle on the left. In this painting, a boy wields two pistols next to the central bare-breasted woman, who is holding a tricolored flag. Name this painting by Eugène Delacroix.

ANSWER: **Liberty Leading the People** [or *La **Liberté Guidant le Peuple***]

227-14-103-01111

12. The second item on this list is "samudaya" (sah-moo-DIE-uh), which is later elucidated to include killing, lying, stealing, and other forms of "attachment." This list begins with "dukkha" (DOO-kuh) and ends with "magga." These tenets were revealed at Sarnath and are recorded in the text *The Setting in Motion of the Wheel of Dharma*, and they constituted the first sermon given after the enlightenment under the Bodhi tree. The last of these beliefs says that the Eightfold Path is the way to reach nirvana. Identify this set of core beliefs of Buddhism.

ANSWER: **Four Noble Truths** [or **Chattari-ariya-saccani**; or **Chatvari-arya-satyani**]

019-14-103-01112

13. In this novel, it is revealed that Debray gives confidential information to his lover to help her invest her husband's money in stocks. That accusation is dealt with by Villefort (vee-yuh-FORT), who realizes a letter given to this novel's protagonist by Napoleon is addressed to his father. With the assistance of Faria, that protagonist escapes that Chateau d'If (DEEF) and gains a fortune. Identify this novel about Edmond Dantes written by Alexandre Dumas (doo-MAH).

ANSWER: *The Count of Monte-Cristo* [or *Le Comte de Monte-Cristo*]

233-14-103-01113

14. This novel's sequel features characters Lew Rabinowitz and Sammy Singer, and is titled *Closing Time*. A name mixup in this novel leads to the sending home of A. Fortiori, instead of the man Major Sanderson thought crazy, leading to the protagonist asking Dobbs if he will kill Colonel Cathcart. M&M Enterprises makes millions for this novel's character Milo Minderbinder. In this novel, Yossarian can't stop flying bombing missions unless he's insane, but his desire to stop bombing proves his sanity. Identify this novel by Joseph Heller.

ANSWER: *Catch-22*

233-14-103-01114

15. Apomixis (EY-poh-MIKE-sis), also known as a clonal version of this process, can occur in species that utilize the ZW sex-determination system. Automixis (AWE-toh-MIKE-sis) occurs when the eggs in this process do undergo meiosis. This process occurs naturally in invertebrates such as aphids, rotifers and nematodes (NEE-muh-tohdz). This form of reproduction has been observed in vertebrate species such as hammerhead sharks and Komodo dragons. Identify this form of asexual reproduction, named from the Greek for "virgin birth," in which an unfertilized egg becomes a new organism.

ANSWER: parthenogenesis [prompt on asexual reproduction]

084-14-103-01115

16. A cathedral in this city was designed by Konstantin Thon and was started on this city's Sparrow Hills. Dmitry Donskoy led this city when it defeated the Tatars at the Battle of Kulikovo (koo-lee-KOH-voh). This city is home to the largest Orthodox cathedral in the world, the Cathedral of Christ the Savior. Ivan the Terrible allegedly blinded the architect of this city's eight-domed cathedral, built to honor Ivan's conquest of Kazan (kuh-ZON). This city was burned after Napoleon won the Battle of Borodino. Name this Russian city, home to St. Basil's Cathedral and the Kremlin.

ANSWER: Moscow [or Moskva]

186-14-103-01116

17. A character in this poem is swallowed by Vipunen (VEE-poo-nen), from whom he extorts the magic words necessary to build a boat without using his hands. The earth is created at the beginning of this poem when a bird's nest falls off the knee of Ilmatar (ILL-ma-tar), who was impregnated by the wind and becomes the mother of Vainamoinen (VINE-a-MOY-nen). Later in this poem, Ilmarinen (ILL-ma-ree-nen) forges the Sampo. Name this national epic of Finland.

ANSWER: the *Kalevala* (KAH-leh-VAH-lah)

142-14-103-01117

18. This man was shot five times by the radical Ferdinand Cohen-Blind. He urged the passage of the Anti-Socialist Laws and innovative Sickness and Accident Insurance Laws. This man claimed that the great questions of the day would be resolved "by iron and blood" and launched the anti-Catholic *Kulturkampf*. He was eventually removed from office by Kaiser Wilhelm II. Name this chancellor who unified the German states into a Prussia-dominated empire.

ANSWER: Otto von Bismarck

052-14-103-01118

19. In diagramming a heat engine on a plot partially named for this value, it is generally shown along the y-axis. At a given mass, a gas that follows Gay-Lussac's (GEH LOO-sack's) law will have this value directly proportional to the gas's temperature. This value is kept constant for a gas when considering the relationship of Charles's Law between temperature and volume, and this value is also kept constant in an isobaric process. Name this value measured in Pascals and calculated by taking force over area.

ANSWER: **pressure**

023-14-103-01119

20. A portrait of this monarch was painted by Jean Clouet (cloo-EY). He was criticized for allying his country with the Ottoman Empire, the first European to do so. This king successfully invaded Italy by defeating Swiss pikemen at the Battle of Marignano (MAH-rin-YAH-no), but he was captured ten years later at Pavia (pah-VEE-uh). This monarch failed to strike an alliance with Henry VIII at the Field of the Cloth of Gold, but was successful in cultivating the French Renaissance. Name this Valois (val-WAH) King of France who often fought against Holy Roman Emperor Charles V.

ANSWER: **Francis I** [prompt on **Francis**]

140-14-103-01120

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17. What particle may oscillate between its three flavors of electron, muon, and tau?
18. **(TWO WORD ANSWER)** General Tilney eventually gives permission for his son Henry to marry Catherine Morland in what novel by Jane Austen?
19. The Jugurthine war took place between Rome and what ancient kingdom?
20. **(TWO WORD ANSWER)** A small girl with a dead chicken on her belt appears in what Rembrandt painting of a company of Dutch musketeers?

## **Alphabet Round - Letter N**

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## **Alphabet Round - Letter N**

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