CATEGORY ROUND

American Literature: American Poets

Team A: Which poet and author described growing up in Stamp, Arkansas in her autobiography *I Know Why the Caged Bird Sings?*

ANSWER: Maya **Angelou** [or Marguerite Ann **Johnson**]

Team B: Which Beat generation poet described seeing "the best minds of my generation destroyed by madness" in his poem "Howl?"

ANSWER: Irwin Allen **Ginsberg**

Tossup: This poet asserted, \"death is the mother of beauty,\" in a poem that describes the \"green freedom of the cockatoo upon a rug.\" That poem by this man describes a \"casual flock of pigeons\" and the \"complacencies of the peignoir.\" In another poem, he wrote of a woman who sings \"beyond the genius of the sea.\" This author of \"Sunday Morning\" and \"The Idea of Order at Key West\" wrote the collection *Harmonium.* Name this modernist American poet of \"The Emperor of Ice-Cream.\"

ANSWER: Wallace **Stevens**

Mathematics: Functions Seen in Calculus

Team B: This is a 30-second calculation question. Find the exact solution of the equation $7 + 5e^x = 10$ ["seven plus five times e to the x equals ten"]; express your answer in terms of the natural log.

ANSWER: **ln 0.6** [or **ln 3/5** or **ln 3-ln 5**; or the **natural log of 3/5**; or the **natural log of 0.6**; or the **natural logarithm of 3/5**; or the **natural logarithm of 0.6**]

Team A: This is a 30-second calculation question. Consider the equation y equals tangent of x minus quantity pi over 4. At what angle between 0 and pi radians would the graph of this equation have a vertical asymptote?

ANSWER: **3 pi over 4** radians [or **3/4 pi** radians; or **0.75 pi radians**; or **135 degrees**]

Tossup: The letter c is appended to the abbreviation of this function when it is divided by x. When solving a triangle, the ambiguous case arises because this function isn't one-to-one. In triangles, this function of an angle, divided by the side opposite the angle, is constant. The y-coordinate of the unit circle is this function of the angle. This function of pi over two radians, or ninety degrees, is one. Name this odd function defined in right triangles as opposite over hypotenuse.

ANSWER: **sin**e

World History: Battles of the Ancient World

Team A: At what battle did a daring two-kilometer charge led by Miltiades lead to only 192 Athenian deaths, compared to over 6000 Persian casulaties?

ANSWER: Battle of **Marathon**

Team B: Which 351 BCE battle took place after Alexander the Great besieged Tyre for seven months, leading to the defeat of Darius III's army and the downfall of the Persian Empire?

ANSWER: Battle of **Gaugamela** [or Battle of **Arbela**]

Tossup: During this battle, a detachment of Phocians were surprised by the arrival of troops led by Hydarnes. Before this battle, a comment about the arrows of the other side led Dienekes to say that this battle would be fought in the shade. Ephialtes betrayed the losing side of this battle by showing the other side a flanking mountain path. Name this pyrrhic victory for the Persians in which their advance in Greece was delayed in a narrow pass by troops under the Spartan king Leonidas.

ANSWER: Battle of **Thermopylae**

Fine Arts: Kinds of Pieces

Team B: Mozart died before he could finish what kind of somber mass which commemorates the deceased?

ANSWER: **requiem** mass

Team A: Handel's *Messiah* is an example of what kind of piece for choirs, soloists, and orchestra, which often deal with Biblical stories?

ANSWER: **oratorio**s

Tossup: Edouard Lalo wrote one of these pieces in five movements for Pablo de Sarasate called the *Symphonie Espagnole*. A set of these compositions includes one that uses rapid pizzicato to depict freezing winds and another whose second movement depicts a barking dog. Those four pieces, collected in *The Contest Between Harmony and Invention*, make up Antonio Vivaldi's *Four Seasons*. Name these pieces for a solo string instrument playing against an orchestra.

ANSWER: **violin concertos** [or **violin concerti**; prompt on **concerto**]

Life Sciences: Genetics

Team A: Give the term for a group of nucleotides which signifies an amino acid or the start and endpoints of transcription.

ANSWER: **codon**

Team B: Give the term for a group of genes under the control of a promoter, which includes the trp (TRIP) and lac (LACK) ones.

ANSWER: **operons**

Tossup: Elongation factors such as EF-Tu transport molecules to this location. GTP is hydrolyzed when molecules move through this structure's A, P, and E sites. In eukaryotes, these structures are made up of subunits that are 40S and 60S in size. The RNA portion of these structures is synthesized in the nucleolus. Molecules including aminoacyl(uh-MEE-noh-EY-sil)-tRNA and mRNA are brought to this organelle to start translation. Name these organelles, the site of protein synthesis.

ANSWER: **ribosome**s

World Literature: Shakesperean Characters

Team B: Which Shakesperean title character murders King Duncan and is killed by Macduff?

ANSWER: **Macbeth**

Team A: Which title character of a Shakespeare play delivers a speech on St. Crispin's Day asking his men to go "once more into the breach" at the Battle of Agincourt?

ANSWER: **Henry V** [prompt on **Henry**]

Tossup: As this character dies, he says farewell to his servant Strato before telling a dead man that "I killed not thee with half so good a will." During a funeral oration, another character continually, if sarcastically, says that this person is an "honorable man." After this man's wife Portia kills herself, he sees a ghost telling him "thou shalt see me at Philippi." He is proclaimed "the noblest Roman of them all" by Mark Antony. Name this man who conspires with Cassius to assassinate the title character in *Julius Caesar*.

ANSWER: Marcus Junius **Brutus**

US Government/Economics: Models

Team A: The Hecksher-Ohlin model considers what general economic activity?

ANSWER: free **trade**

Team B: John Hicks invented what model representing the relationship between interest rates and output according to Keynesian theory?

ANSWER: **IS-LM** model

Tossup: A "leadership model" of this situation, differing from earlier one-stage game models of it, was created by Heinrich von Stackelberg. The earliest-known conception of a Nash equilibrium was formulated in a model of this situation created by Augustin Cournot, in which firms choose a quantity to produce simultaneously. The simplest example of this situation is a duopoly, and this market structure is the one most favorable for collusion. Name these markets in which a small, non-unitary group of firms set the price.

ANSWER: **oligopoly** [or **duopoly** before it is read]

Physical Sciences: Chemical Processes

Team B: What process converts ammonia into nitric acid?

ANSWER: **Ostwald** process

Team A: What electrochemical process covers iron or steel with a zinc coating?

ANSWER: **galvanization** [or word forms; prompt on "electroplating"]

Tossup: This compound is a byproduct in the production of the soda ash in the LeBlanc process, which is subsequently removed through the Deacon process. Ethylene and this compound are reacted to form the monomer in PVC. An older name for this compound is muriatic acid. A solution of this compound and nitric acid can dissolve gold and platinum. Gastrin stimulates this compound's secretion in the body. Identify this acid found naturally in the stomach that has formula H Cl.

ANSWER: **hydrochloric** acid [or **H Cl** until it is read; or **muriatic acid** until is read]

World Geography: In the Air

Team A: What city's main airport at Kai Tak was replaced by a new typhoon-proof facility on the island of Chek Lap Kok in 1998?

ANSWER: **Hong Kong**

Team B: Frontier and Great Lakes airlines have their hub at what airport, the physically largest in the U.S., which has attracted conspiracy theories over the design of its Jeppesen Terminal?

ANSWER: **Denver** International Airport

Tossup: This city's Augarten park contains two half-finished anti-aircraft towers too solid to be safely demolished. For many years, the world's tallest Ferris wheel was in the park called the Prater in its district of Leopoldstadt. When this city's second through ninth districts were added, the old city walls were replaced by the road called the Ringstrasse. The Schönbrunn Palace was the summer residence for this city's Habsburg monarchs. Name this capital of Austria.

ANSWER: **Vienna**, Austria [or **Wien**, Österreich]

American History: Battles

Team B: What 1944 operation was the largest airborne operation in history to that point and was a failed Allied attempt at crossing the Rhine?

ANSWER: Operation **Market Garden**

Team A: What 1942 operation was a joint British-American invasion of occupied North Africa?

ANSWER: Operation **Torch**

Tossup: A song about this war begins with a wife noting "Reuben, Reuben, I've been thinking" before the response "how ya gonna keep 'em down on the farm?" A protest song about this war was called "I Didn't Raise My Boy to Be a Soldier." A George M. Cohan song about it begins with the lyric "Johnny, get your gun" and has a chorus noting "that the Yanks are coming." American forces in this war also sang "It's a Long Way to Tipperary." Name this war during which the song "Over There" was written in 1917.

ANSWER: **World War I** [or the **First World War**; or the **Great War**]

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Alphabet Round - Letter A ANSWERS

1. **arthropod**s

2. **Arkansas**

3. Reinaldo **Arenas**

4. **Ashoka**

5. **argyle**

6. **Athena**

7. **anteater**s

8. **asterism**s

9. **anthrax**

10. **Astana**

11. **apse**

12. **anthropomorphism**

13. **asterisk**

14. **ammeter**

15. ***Angle of Repose***

16. **ALS**

17. Edmund **Andros**

18. **Addison's** disease

19. **amplitude**

20. **affirmative action**

FINAL ROUND

1. Invariants named for these constructs are true after every time they are executed. A type of them whose name is prefixed with "do" checks the termination condition at the end, rather than the beginning. One can go to the beginning of one of them with the "continue" command, or leave one entirely with the "break" command. These constructs come in "while" and "for" types. Name these repeating pieces of code, an "infinite" one of which will cause a program to run forever.
ANSWER: **loop**s [or specific answers, such as **for loop**s or **while loop**s]

2. According to one story, this hero performed a katabasis (KAH-tuh-BAH-sis) by being eaten and regurgitated by a dragon. In another story, this hero attacked Iolcus (ee-OL-kus) with Peleus after his cousins were tricked into boiling his uncle, thinking that it would make him younger. This hero successfully yoked two fire-breathing bulls, and he lost a sandal while helping a disguised Hera cross a river. Name this husband of Medea who led the Argonauts in their quest for the Golden Fleece.
ANSWER: **Jason**

3. On a trip to Spain, this artist painted a teenage musician working in the band of the Imperial Guard in his *The Fifer.* In one painting, this man depicted a bowl of oranges next to a blonde serving alcohol. This painter used Victorine Meurent as the model for a nude woman eating next to two clothed men in his *Luncheon on the Grass.* This man invited controversy for his painting of a lounging prostitute staring defiantly at the viewer. Name this Impressionist painter of *Olympia.*
ANSWER: Edouard **Manet** [do not accept "Monet"]

4. This country lost a war that started after two years of joint rule over Schleswig-Holstein. This country that lost the Seven Weeks' War was ruled for nearly seventy years by Franz Joseph. A minister from this country organized a meeting attended by Castlereagh and Talleyrand. In 1867, this country became part of a dual monarchy with its eastern neighbor, Hungary. Name this European country served by Klemens von Metternich, who used its capital to host the Congress of Vienna.
ANSWER: Republic of **Austria** [or Republik **Oesterreich**]

5. In a book by this author, the title character fights against Gamzat and Shamil. This author wrote a novel whose protagonist likes to rest his feet on Gerasim's shoulders. In another of his works, a character cries out when Frou-Frou falls during a horse race. This author of *Hadji Murad* and *The Death of Ivan Ilyich* wrote a novel in which Levin marries Kitty, and the title character kills herself by jumping under a train. Name this Russian author of *Anna Karenina.*
ANSWER: Leo **Tolstoy** [or Lev Nikolayevich **Tolstoy**]

6. This river contains a seventy-five-mile stretch of rough rapids dubbed "The Gates of Hell." The central portion of this river's basin is known as the "cuvette" and contains the second-largest rainforest in the world. This river splits off at a point, creating a lake-like area now known as the Malebo Pool. The Lualaba is this river's largest tributary. The cities of Kinshasa and Brazzaville lie on the banks of this river, which lends its name to the countries both of those cities are located in. Name this major river of central Africa, the second longest on the continent.
ANSWER: **Congo** River

7. This type of literature was addressed to "Miss Nobody" and was written by Frances Burney. A famous author of this type of book was the Chief Secretary to the Admiralty under Charles II. Samuel Pepys (Peeps) wrote one of these in the 1600's, describing things like the Great Fire of London. After World War II, Otto Frank edited his daughter's type of this book describing life hiding from the Nazis. Name this literary genre in which the author writes about his or her daily activities.
ANSWER: **diary** [or **journal**]

8. This event was ended prematurely when Christina Maslach, who later married its organizer, objected to what was going on. Conducted in the basement of Jordan Hall, this event featured a man emulating a character from the film *Cool Hand Luke,* earning him the inaccurate nickname "John Wayne." Of the twenty-four participants, twelve were named guards and quickly began physically abusing the others. Name this 1971 Philip Zimbardo experiment testing the abuse of power, which took place at a California university.
ANSWER: **Stanford prison** experiment

9. Lorenzetto sculpted the Madonna del Sasso above this man's tomb in the Pantheon in Rome. Two bored-looking cherubim appear at the bottom of his altarpiece in Piacenza (pee-uh-CHEN-zuh), the *Sistine Madonna.* His painting of the *Disputation of the Holy Sacrament* hangs directly across from his most famous fresco, which depicts Plato and Aristotle walking down a staircase, surrounded by other intellectuals. Name this Renaissance painter of *The School of Athens.*
ANSWER: **Raphael** [or **Raffaelo** Sanzio de Urbino; or **Santi**]

10. In this work, Steelkit leads a mutiny aboard the *Town-Ho*. Fedallah the Parsee interprets a dream in this work in which he predicts that only hemp will kill one of the characters. One character in this work prays to the "little black god" named Yojo and that character saves Tashtego. Starbuck is the chief mate in this work that also sees the death of Queequeg. Name this novel in which Ishmael sails with Captain Ahab aboard the *Pequod* in a search for a great whale, a work by Herman Melville.
ANSWER: ***Moby Dick***

11. This instrument was used in jazz by Stephane Grapelli and Stuff Smith. Gustav Holst wrote a double concerto for this instrument for Jelly d'Aranyi and her sister Adila Fachiri. In the nineteenth century, leading players of this instrument included Johannes Brahms's collaboator Joseph Joachim and the virtuoso Niccolo Paganini. Name this instrument which Yehudi Menuhin and Itzhak Perlman also play using a shoulder rest and a bow, which is higher pitched than the cello and viola.
ANSWER: **violin**

12. This document mandated that all foreign relations be conducted under the "Model Treaty," a template for bilateral agreements that focused on free trade and defined lists of contraband. This document created an executive body called the Committee of the States, and the government organized under it passed the Northwest Ordinance. The 1787 Shays Rebellion highlighted the weakness in this document. Name this ineffectual early U.S. governing charter that was abolished in the Constitutional Convention.
ANSWER: **Articles of Confederation** and Perpetual Union

13. During his Eastern Journey, this man survived an assassination attempt in the Otsu Incident. This man secretly supported a wave of pogroms in his country, and in his diary this man declared the "Bloody Sunday" massacre to be a "Bad Day!" This monarch refused to accept defeat in a 1905 war with Japan until his Baltic fleet was annihilated after going around the world. Name this final czar of the Romanov dynasty who was executed with his family in 1917.
ANSWER: **Nicholas II** Romanov [prompt on **Nicholas**]

14. A king of this name died from food poisoning after eating an excess of lampreys. An emperor of this name was forced to abdicate in 1105. A 1587 namesake war was fought between three men of this name, and a French king of this name enacted the Edict of Nantes. Another person with this name was the first monarch of the Tudor dynasty. Give this name shared by many European rulers, including an English king with six wives.
ANSWER: **Henry**

15. Unusually, singlet oxygen and both hydrogen and hydroxyl radicals form during this type of reaction. Enthalpies of reaction are usually calculated by using substance-specific enthalpies of formation or enthalpies of this process. The Otto and Diesel cycles extract work from the enthalpy of this type of reaction. Carbon monoxide is generated in the incomplete form of this reaction, which occurs at low external oxygen concentrations. Name this exothermic reaction in which hydrocarbons produce water and carbon dioxide by burning.
ANSWER: **combustion** [or word forms; prompt on **burn**ing until it is read]

16. This construction is generally used only in formal or written French, and is replaced by liberal use of "c'est" (SEH) or "ce" (SUH) to start sentences in most speech. This construction involves the preposition "par" when there is a specific action expressed, or "de" when a more general state of being is involved. This construction is formed by conjugating the verb "être" (ATE-ruh) with the past participle, which agrees in gender and number with the subject. Identify this French verb voice which is used to express actions done to the subject by an agent.
ANSWER: French **passive** voice [or la voix **passive**]

17. Part of this man's philosophy focused on the absolute spirit gaining self awareness through thought, nature, and finite spirits. Bruno Bauer and Ludwig Feuerbach were some of the so-called "young" philosophers who examined this man's writings. Identify this German philosopher who described a thesis, antithesis, and synthesis as part of his dialectic system and who wrote *The Philosophy of Right* and *Phenomenology of the Mind*.
ANSWER: Georg Wilhelm Friedrich **Hegel**

18. At the end of this play, two characters attempt to hang themselves by taking off one of their belts, only for its owner's pants to fall off. It ends with the stage direction "They do not move," which follows the line "Yes, let's go." In this play, Pozzo appears twice carrying Lucky around on a rope. It mostly consists of the discourse between two tramps who call each other Didi and Gogo, Vladimir and Estragon. Name this absurdist play by Samuel Beckett in which the title character fails to make an appearance.
ANSWER: *Waiting for Godot* [or *En Attendant Godot*]

19. In a "differential" setup named for these objects, two of them exert opposite and unequal torques on a third. The acceleration in another system with one of these objects at its apex is proportional to the difference of two masses divided by their sum. Their mechanical advantage increases as more of them are used at once. An idealized Atwood machine contains two weights, a string, and a massless one of these objects, which are used in a block and tackle to lift objects. Name this simple machine that consists of a wheel with a rope over it.
ANSWER: **pulley**

20. This compound inhibits prolactin secretion when it is released from the tubero-infun-dibular pathway. The enzyme tyrosine hydroxylase plays a key role in this neurotransmitter's synthesis. The mesolimbic and mesocortical pathways of the brain both use this neurotransmitter. Depletion of this neurotransmitter in the substantia nigra (NYE-gruh) leads to a disease characterized by shaking and other issues with movement. Identify this neurotransmitter whose deficiency is a cause of Parkinson's disease.
ANSWER: **dopamine**

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