Playoff Round 1

First Half

(Tossup 1) **This empire was founded after a rooster-tipped arrow was used at the Battle of Kirina to defeat Sumanguru. The general Sagmandia helped extend this empire after it was founded by Sundiata, but it eventually fell to the (*)** Songhai. The most famous ruler of this empire ruined the value of gold along the Mediterranean as he made his hajj to Mecca. Mansa Musa ruled, for ten points, what empire of West Africa centered at Timbuktu whose name is now held by a landlocked country with capital Bamako?

ANSWER: **Mali** Empire

(Bonus 1) One member of this pair supported the other in the Castilian Civil War, after which the two were promptly married. For ten points each,

[Part A] Name these two Catholic monarchs of Castile and Aragon. As rulers of Spain, they sponsored Columbus's voyage across the Atlantic.

ANSWER: **Ferdinand** II of Aragon and **Isabella** I of Castile (accept in either order; prompt if only one given)

[Part B] Ferdinand and Isabella issued this decree after completing the Reconquista. It expelled all Jews from Spain who refused to convert to Christianity.

ANSWER: **Alhambra** Decree

[Part C] Ferdinand and Isabella created a new instance of this institution in 1478 to replace one controlled by the Pope. This organization attempted to find *conversos*, and it executed a punishment known as an *auto-da-fé*.

ANSWER: the Spanish **Inquisition**

(Tossup 2) **The actress Mrs. Patrick Campbell risked her career on this play by uttering the line "Walk? Not bloody likely!" on stage. This play begins in Covent Garden with Freddy Eynsford-Hills attempting to hail a cab. In this play, Colonel Pickering has a bet with (*)** phonetics professor Henry Higgins on whether or not he could pass the cockney flower girl, Eliza Doolittle, off as a duchess. For ten points, name this play by George Bernard Shaw that inspired the musical *My Fair Lady*.

ANSWER: **Pygmalion**

(Bonus 2) This poet wrote that "I saw the best minds of my generation destroyed by madness, starving hysterical naked" in the poem "Howl." For ten points each,

[Part A] Name this American poet who wrote "Kaddish" for his mother, Naomi.

ANSWER: (Irwin) Allen **Ginsberg**

[Part B] Though he became a Buddhist in later life, Allen Ginsberg was born into a family with this religious ethnicity, which he reflects on in "Kaddish."

ANSWER: **Jew**ish (accept word forms related to **Judaism**)

[Part C] In "Kaddish for Naomi Ginsberg," Allen Ginsberg reflects on this event, which he calls "that remedy all singers dream of, sing, remember, prophesy."

ANSWER: Naomi Ginsberg's **death** (or the **death** of his mother)

(Tossup 3) **Lagrange proved that any positive integer can be written as a sum of this many perfect squares. Divisibility testing for both 25 and this numbers look only at the last two digits. Planar graphs can be (*)** colored with at most this number of colors. The smallest Platonic solid has this number of faces. This is the smallest number of points that are not coplanar and the number of faces of a tetrahedon. For ten points, name this smallest composite number.

ANSWER: **four**

(Bonus 3) This is the only prime number that is one less than a perfect square. For ten points,

[Part A] Name this number. It's also the smallest odd prime number.

ANSWER: **three**

[Part B] A proof of the aforementioned claim starts by noting that 3 is equal to "4 minus 1," a quantity in this common form. Quantities in this form can be factored into "a minus b" and "a plus b" quantities. Description acceptable.

ANSWER: **difference of squares** (accept equivalent descriptions; accept **a squared minus b squared** and equivalent expressions, including **2 squared minus 1 squared**)

[Part C] For similar reasons, there is only one prime equal to a perfect cube minus 1; find that prime number.

ANSWER: **seven**

(Tossup 4) **Dividing the left hand side of this equation by the right yields the definition for compressibility factor. Correcting this state equation for the space taken up by molecules and for intermolecular forces leads to (*)** Van der Waals' equation. This equation can be derived from the laws of Boyle, Charles, and Avogadro. For ten points, name this law, often expressed as PV equals nRT, that describes how a gas should theoretically behave.

ANSWER: **ideal gas** law

(Bonus 4) Volcanic eruptions spew lava and rocky debris, with the debris classified based on its size. For ten points each,

[Part A] Debris of a few inches in diameter is called a volcanic bomb; this is the term for the smallest debris particles, less than a few millimeters in size. Plumes of this material rise out of explosive volcanic eruptions.

ANSWER: volcanic **ash**

[Part B] This volcanic rock is created from the rapid cooling of gas-rich lava. It is very light and porous, and often floats in the ocean after a sea-based eruption.

ANSWER: **pumice**

[Part C] Highly explosive volcanic eruptions can produce this deadly, fast-moving current of hot gas and ash that speeds down the volcano. These phenomena can reach temperatures of 1000 degrees Celsius.

ANSWER: **pyroclastic flow**

(Tossup 5) **This novel's protagonist fails to sustain a marriage to Valeria, and overcomes a preoccupation with Miss McCoo and Aurora Leigh after meeting Charlotte's daughter. In this novel, Clare Quilty writes a school play that stars (*)** Dolores Haze, one of the pre-pubescent girls whom Humbert Humbert nicknames "nymphets." For ten points, name this novel by Vladimir Nabokov.

ANSWER: **Lolita**

(Bonus 5) Answer the following about a novel concerning the coming-of-age of Jo March and her sisters, Meg, Beth, and Amy, for ten points each.

[Part A] Name this novel, in which Marmee and the four March sisters experience love and loss at the tail end of the Civil War.

ANSWER: **Little Women**

[Part B] The character of Jo March was a semi-autobiographical representation of this woman, the author of *Little Women*, who often responded to letters addressing her as "Jo" or "Miss March."

ANSWER: Louisa May **Alcott**

[Part C] Name the German professor who marries Jo March. In *Little Men*, the sequel to *Little Women*, Jo opens a school at the Plumfield estate and raises her sons there with this man.

ANSWER: Professor **Friedrich** "**Fritz**" **Bhaer** (accept any underlined name)

(Tossup 6) **Composer and genre required. One of these wprks dedicated to Rudolf of Austria comes from the German name for fortepiano. One of these pieces is nicknamed "Appassionata." Another of these works was subtitled "Quasi una (*)** fantasia" and was inspired by a viewing of Lake Lucerne at night. For ten points, name this type of piano piece by a certain German composer, the most famous of which is nicknamed "Moonlight."

ANSWER: **piano sonata**s by Ludwig van **Beethoven** (prompt on partial answer)

(Bonus 6) Answer the following about *The Garden of Earthly Delights*, for ten points each.

[Part A] The work is a masterpiece by this fifteenth-century Dutch artist.

ANSWER: Hieronymus **Bosch** (or Jheronimus **van Aken**)

[Part B] The work is this type of panel painting which takes its name from the fact it is divided into three folding panels, unlike the "two fold" diptych.

ANSWER: **triptych**

[Part C] In the right panel of *The Garden of Earthly Delights*, these two nude, biblical figures are surrounded by trees and animals to evoke the Garden of Eden.

ANSWER: **Adam and Eve**

(Tossup 7) **Patients with this disease may experience acute chest syndrome or a vaso-occlusive crisis. This autosomal recessive disease gives a heterozygous advantage against the plasmodium parasite. The abnormal HbS form of (*)** hemoglobin leads to this disease, which may cause artery blockage and blood vessel damage but also a resistance to malaria. For ten points, name this anemia characterized by crescent-shaped red blood cells.

ANSWER: **sickle-cell** anemia (or **sickle-cell** disease; prompt on anemia)

(Bonus 7) A group of elements, including germanium and silicon as well as up to 9 others, will exhibit properties of metals and of non-metals. For ten points each,

[Part A] Give this term for a staircase-shaped group of elements on the periodic table.

ANSWER: **metalloid**s

[Part B] The metalloids germanium and silicon are prominent examples of this electrical property, in which the material is somewhat resistant to electrical currents.

ANSWER: **semiconductor** (accept word forms)

[Part C] This process can lower a semiconductor's resistance by introducing impurities into its crystal structure.

ANSWER: **doping** (accept word forms)

Sixty Second Rounds

The categories are . . .

1. Shakespeare's Julius Caesar

2. Governments in Exile

3. The Science of the Creation of the Universe

4. John Philip Sousa

Shakespeare's Julius Caesar

In the Tragedy of Julius Caesar, who or what is...

(1) the Italian city where Caesar is stabbed on the steps of the Senate?

ANSWER: **Rome** (accept **Roma**)

(2) the date on which Caesar's assassination takes place, as predicted by a soothsayer near the beginning of the play?

ANSWER: **Ides of March** (accept **March 15**)

(3) the Senator who is asked "Et tu?" as he stabs Caesar to death?

ANSWER: Marcus **Brutus** (accept "Et tu, **Brute**?" [broo-TAY]; accept Marcus Junius **Brutus** the Younger)

(4) that man's co-conspirator, who has a "lean and hungry look" and falls on his sword at Philippi?

ANSWER: Gaius **Cassius** Longinus

(5) the speaker who asks an audience to "lend me your ears" and declares "I come to bury Caesar, not to praise him" at Caesar's funeral?

ANSWER: Mark **Antony** (accept Marcus **Antonius**)

(6) the wife of Caesar, whose nightmares make her beg Caesar not to go to the Senate?

ANSWER: **Calphurnia**

GOVERNMENTS IN EXILE

Name the...

(1) Capital of the United Kingdom that hosted may governments-in-exile during World War II.

ANSWER: **London**

(2) Religious leader who leads the Tibetan government-in-exile.

ANSWER: **Dalai Lama** (or Tenzin **Gyatso**)

(3) Island nation just south of India whose Transnational Government of Tamil Eelam seeks an independent Tamil state.

ANSWER: **Sri Lanka**

(4) Country whose government fled to Paris after Francisco Franco seized power.

ANSWER: **Spain** (accept Second **Spanish Republic**)

(5) Oil-rich country whose government fled after Saddam Hussein invaded it in 1991.

ANSWER: **Kuwait**

(6) Country whose ruling House of Braganza fled to South America in 1820.

ANSWER: **Portugal**

The Science of the Creation of the Universe

Name the...

(1) Event in which the universe expanded from a singularity, a model commonly accepted today.

ANSWER: **Big Bang** theory

(2) Element that, with helium, made up a majority of the atoms produced in that event.

ANSWER: **hydrogen**

(3) British scientist whose work supported the singularity theory and was done while suffering from ALS.

ANSWER: Stephen **Hawking**

(4) Scientist whose law notes the expansion of the Universe and who names an American space telescope.

ANSWER: Edwin **Hubble** (accept **Hubble**'s Law or **Hubble** Space Telescope)

(5) Theory explaining space's exponential expansion in the universe's first fraction of a second.

ANSWER: cosmic/cosmological **inflation**

(6) Alternative model that states that matter is continuously created to keep the density of the universe constant as it expands.

ANSWER: **steady state** theory

John Philip Sousa

John Philip Sousa...

(1) Was known as the "king" of this musical genre, often used in military events.

ANSWER: marches (accept any additional information)

(2) Earned that nickname after writing a piece titled for this newspaper, published in the District of Columbia.

ANSWER: **Washington Post**

(3) Created the Sousaphone, a marching version of this brass instrument.

ANSWER: **tuba**

(4) Wrote this piece with a famous piccolo solo that is an official US song.

ANSWER: the **Stars and Stripes Forever**

(5) Composed this piece for the Marine Corps, taking its title from the motto of the Marines.

ANSWER: **Semper Fidelis**

(6) Composed this operetta, named for a massive granite formation in Yosemite National Park.

ANSWER: **El Capitan**

Second Half

(Tossup 8) **During this event, one man positioned himself outside of Schiller's Delicatessen but, contrary to legend, was not eating a cheese sandwich during this event. The target of this event told his wife that she must "live for our children!" after she was (*)** shot near the Latin Bridge. An unannounced change in itinerary caused a driver to turn down the wrong street in Sarajevo. For ten points, name this 1914 event, carried out by Gavrilo Princip, that sparked World War I.

ANSWER: **assassination** (or **murder**, **shooting**, etc.) of **Franz Ferdinand**

(Bonus 8) For ten points each, name these things about political cartoons in American history.

[Part A] The elephant and the donkey as symbols for the Republican and Democrat parties were first sketched by this man, whose cartoons attacking Boss Tweed contributed to the downfall of Tammany Hall.

ANSWER: Thomas **Nast**

[Part B] A snapping turtle named "Ograbme" bites at a sailor in a cartoon attacking this type of policy.

ANSWER: **embargo** (accept **Embargo** Act; prompt on generic descriptions related to punitive trade policy, but not isolationist trade policy)

[Part C] Cartoons making fun of this president often showed him imposing the policies of the New Deal on Congress.

ANSWER: **F**ranklin Delano **Roosevelt** (accept **FDR**; prompt on Roosevelt)

(Tossup 9) **In *Heroes of the Storm*, Kharazim is a member of this profession. The "Blind Moth" type of this profession resides below the White Gold Tower, having gone blind from reading the (*)** Elder Scrolls. In *League of Legends*, Resonating Strike is used by one of these characters named Lee Sin. Hand-to-hand combat and healing are common skills of, for ten points, what type of characters that, in *Age of Empires II*, are trained in Monasteries?

ANSWER: **monk**s (accept **healer** until "Blind Moth" is read; do not accept priest or other religious figures)

(Bonus 9) For ten points each, name the following musicians who get a great deal more airplay in December than any other month.

[Part A] This Canadian crooner of "Haven't Met You Yet" has sold over ten million copies of his 2011 Christmas album.

ANSWER: Michael **Bublé**

[Part B] This lead singer of the band Wham! lamented that "Last Christmas, I gave you my heart." This singer, who passed away on Christmas Day in 2016, opened his "Careless Whisper" with a famous saxophone melody.

ANSWER: George **Michael**

[Part C] On the other hand, this pop singer's 18 number one singles include "I'll Be There" and "We Belong Together" but not her "All I Want for Christmas is You," the highest charting holiday song in Billboard history.

ANSWER: Mariah **Carey**

(Tossup 10) **Six to twelve months before this event occurs, strong activity occurs in the Madden-Julian Oscillation. The weakening or reversing of the Walker Circulation triggers this event, which is linked to a decrease in (*)** hurricane formation in the Atlantic and to a decrease in winds off the coast of Peru. This warm phase of the Southern Oscillation affects the Pacific Coast of North and South America. For ten points, name this weather pattern contrasted with La Niña.

ANSWER: **El Niño**-Southern Oscillation (or **ENSO**; prompt on Southern Oscillation)

(Bonus 10) For ten points each, name these biologically-important elements.

[Part A] This element is found in the central porphyrin ring of hemoglobin. Foods like spinach and red meat are good sources of this metal.

ANSWER: **iron** (or **Fe**)

[Part B] This element is paired with potassium in a namesake pump found in the cell membrane. Adults shouldn't consume more than 2,300 milligrams of this metal per day.

ANSWER: **sodium** or **Na**

[Part C] This non-metal element is found alongside carbon, nitrogen, hydrogen, and oxygen in nucleic acids but not in proteins. This element names the type of lipid found in cell membranes.

ANSWER: **phosphorus** (or **P**; accept **phospholipid** membrane and related answers)

(Tossup 11) **In 2015, this state's southern Scott County started reporting an HIV epidemic that critics blamed on the closure of a Planned Parenthood clinic. This state's current governor, Eric Holcomb, won election after the previous holder ran for (*)** Vice President in 2016 instead. Mike Pence was once governor of, for ten points, what Midwestern state where the 2015 Religious Freedom Restoration Act caused some boycotting companies to flee west to Illinois?

ANSWER: **Indiana**

(Bonus 11) This philosopher was the first to describe a supernatural being as an "unmoved mover," doing so in his *Metaphysics*. For ten points each,

[Part A] Name this ancient Greek thinker whose other works include the *Organon*, *Nicomachean Ethics*, and *Poetics*. This student of Plato tutored Alexander the Great.

ANSWER: **Aristotle**

[Part B] Aristotle founded his Peripatetic school of philosophy in this temple to Apollo, named for Apollo's epithet as a wolf-god.

ANSWER: **Lyceum**

[Part C] The "unmoved mover" argument inspired the first of this Christian scholar's "Five Ways," which he described in *Summa Theologica*.

ANSWER: Saint Thomas **Aquinas**

(Tossup 12) **This deity shares many traits with "the roarer," Rudra. During the Churning of the Ocean, this deity drank Halahala poison in order to save the world; when this god's wife (*)** Parvati grabbed his windpipe to prevent the poison from killing him, it turned this god's throat blue. For ten points, name this three-eyed Hindu god, the member of the Trimurti commonly called the destroyer.

ANSWER: **Shiva**

(Bonus 12) Six of Odysseus's men are eaten while passing near this monster. For ten points each,

[Part A] Name this sea monster. While passing through a narrow strait, Odysseus chose to take his chances with this monster, which has twelve tentacle-like legs and four to six dog-heads ringed around her waist, instead of with her counterpart Charybdis [kah-rib-diss].

ANSWER: **Scylla**

[Part B] Six more of Odysseus's men are eaten by Polyphemus, one of these creatures. Odysseus claims his name is "Nobody" while escaping from this creature, leading him to exclaim "Nobody has blinded me" after he loses his eye.

ANSWER: **cyclops** (accept **cyclopes**)

[Part C] Even more of Odysseus's men are eaten by this kind of being, called the Laestrygonians, who manage to destroy eleven of Odysseus's twelve ships near their city of Telepylos.

ANSWER: **cannibal**s (accept **giant**s; accept **human**s or **people**)

(Tossup 13) **In 1878, George Reynolds was charged with performing this action twice; his case went to the Supreme Court, which ruled that religious freedom did not protect his right to do this twice. Other laws restricting this action were struck down by (*)** *Windsor v. US* and *Loving v. Virginia.* For ten points, name this action that, after the 2015 case *Obergefell v. Hodges*, is held to be a fundamental right for same-sex and opposite-sex couples.

ANSWER: getting **married** (accept anything to do with **marriage** or **wedding**s; accept **bigamy** or descriptions of being **married** more than once; accept **same-sex** marriage; accept interracial **marriage**, etc.)

(Bonus 13) In 1958 Syria joined with this country to form the United Arab Republic. For ten points each,

[Part A] Name this country, whose capital of Cairo became the UAR's capital.

ANSWER: **Egypt**

[Part B] The UAR's first President was this Egyptian President, who led the coup against King Farouk and became Egypt's second President after Mohammed Naguib.

ANSWER: Gamal Abdel **Nasser**

[Part C] While Syria left the Republic in 1963, Egypt retained the Republic's name when it entered this war. Israel gained the Gaza Strip and Sinai Peninsula as a result of this very short war.

ANSWER: **Six-Day** War (accept **June War**, **1967 Arab-Israeli** War, or **Third Arab-Israeli** War)

(Tossup 14) **In a novel by this author, George Washington wrongly thinks that Harvey is a British agent. This author of *The Spy* committed numerous "Literary Offenses," according to a Mark Twain essay. Alice and Cora Munro are kidnapped by (*)** Magua in a novel by this man, set during the French and Indian War, that follows *The Deerslayer* in the *Leatherstocking Tales* series. Natty Bumpo appears in, for ten points, which American author's novel *The Last of the Mohicans*?

ANSWER: James Fenimore **Cooper**

(Bonus 14) In one of his novels, Florentina and Fermina marry after being apart for fifty years. For ten points each,

[Part A] Name this magical realist author of *Love in the Time of Cholera* who depicted Santiago Nasar's death in *Chronicle of a Death Foretold.*

ANSWER: Gabriel **Garcia** Marquez (prompt on Marquez)

[Part B] Garcia Marquez depicted the Ciénaga Banana Massacre in this saga, which documents the Buendía family, who live in the town of Macondo for the title period of time.

ANSWER: **One Hundred Years of Solitude** (accept **Cien Años de Soledad**)

[Part C] *One Hundred Years of Solitude* is set in this home country of Garcia Marquez. He set *No One Writes to the Colonel* during this country's La Violencia.

ANSWER: Republic of **Colombia**

Extra Question

Only read if you need a backup or tiebreaker!

(Tossup 15) **These people were victorious against the Polish at Legnica [leg-neet-zah], though their grip on Russia was weakened by the battle of Kullikovo. Batu's led these people into Europe within the Golden (*)** Horde, while in the east, these people conquered the Song dynasty to found the Yuan dynasty in China under Kublai Khan. For ten points, name these nomadic people who ruled the largest contiguous land empire in history.

ANSWER: __Mongol__s

(Bonus 15) The activities of this group were exposed in the Mitrokhin Archives after its author defected to MI5, its British counterpart. For ten points each,

[Part A] Name this "sword and shield" of the Soviet Union, a security agency that operated from 1954 to 1991.

ANSWER: __KGB__ (or the __Komitet gosudarstvennoy bezopasnosti__; accept __Committee for State Security__)

[Part B] The KGB was disbanded shortly after launching the August Coup against Mikhail Gorbachev; that coup was thwarted by a speech given atop a tank by this man, who succeeded Gorbachev as the first president of the Russian Federation.

ANSWER: Boris __Yeltsin__

[Part C] Unlike the earlier NKVD police, the KGB did not utilize these facilities, where political dissidents were sent for forced labor during the Stalin regime. Many, but not all, of these camps were in Siberia.

ANSWER: __gulag__s (or __Glavnoye upravleniye lagerej__)