

Round 2

Bee Round 2

(Tossup 1) A compound of this element and sodium is used to make airbags expand. This element combines with oxygen to form laughing gas, and with hydrogen to form hydrazine. Two of this element form a relatively inert diatomic gas due to the presence of a triple bond. Rhizobia is a group of bacteria known for “fixing” this element. For the point, name this element with atomic number 7, the most abundant element in the Earth’s atmosphere.

ANSWER: nitrogen (accept N)

(Tossup 2) This war was escalated after news of fighting at Jumonville Glen and Fort Necessity was received. In this war’s decisive engagement, both generals Montcalm and Wolfe were slain in fighting on the Plains of Abraham outside Quebec. Debt accumulated from this conflict prompted George III to increase taxes on the thirteen colonies. For the point, name this North American offshoot of the Seven Years War, named for the opponents of the British & American side.

ANSWER: French and Indian War (prompt on Seven Years War before mentioned)

(Tossup 3) In a poem named for this character, he is contrasted with an animal that “dips his wing / in the orange sun rays / and dares to claim the sky.” This animal “can seldom see through / his bars of rage” and despite his clipped wings and tied feet, this animal reflects on “things unknown / but longed for still” as he “sings of freedom” from captivity. For the point, name this title character of a Maya Angelou poem that declares “I know why” this animal “sings.”

ANSWER: the caged bird (prompt on bird)

(Tossup 4) Nearly half of a million people died in this country during the Grande Seca, a massive 1878 drought that caused mass migration out of the state of Ceará and its city of Fortaleza. Mato Grosso do Sul and other central states in this country rely on cattle farming in deforested land along its continent’s largest river. For the point, name this country where over six million people live in Rio de Janeiro and millions more live along the Amazon River.

ANSWER: Brazil

(Tossup 5) In opposition to an invasion of this country, the US launched Operation Cyclone to provide it with stinger missiles and boycotted the 1980 Summer Olympics in Moscow. This country’s mujahideen were beneficiaries of CIA support during that Soviet invasion, though those weapons later ended up in the hands of Al-Qaeda. In 2001, the United States invaded, for the point, what Middle Eastern country, forcing the Taliban from Kabul?

ANSWER: Islamic Republic of Afghanistan

(Tossup 6) When using these shapes, a series of coefficients that starts with 1, ends with 1, and has all 2s between is part of a formula to simplify a Riemann sum; that calculation is less accurate than Simpson's rule but better than using rectangles. The common area formula for these shapes involves multiplying their height by the average of their different base lengths. For the point, name these quadrilaterals that only have one pair of opposite parallel sides.

ANSWER: trapezoid (or trapezium)

(Tossup 7) The artist of this work said he wanted to depict a "savage force" by appealing to Primitivism. This painting shows an assortment of fruit at the feet of a seated woman. In this painting, a group of five nude figures posing with bent arms includes two women with angular faces that may have been inspired by African masks. For the point, name this Pablo Picasso painting of a group of prostitutes from Barcelona.

ANSWER: Les Demoiselles d'Avignon (accept The Women of Avignon or The Young Ladies of Avignon; accept The Brothel of Avignon)

(Tossup 8) In this novel, the father of Eliza Williams's baby is revealed to be Mr Willoughby, who had carried one of this novel's protagonists home after she twisted her ankle in the rain. In this novel, Colonel Brandon and Edward Ferrars marry the Dashwood sisters Marianne and Elinor, who represent emotion and thought. For the point, name this novel by Jane Austen, the author of *Pride and Prejudice*.

ANSWER: Sense and Sensibility

(Tossup 9) These materials are characterized as Type I and Type II by their London penetration depth. BCS theory explains these materials as Cooper pairs of electrons condensing into a certain state. Magnetic fields are expelled from these materials in the Meissner effect, and they gain their namesake property below the critical temperature. For the point, name these materials with zero electrical resistance.

ANSWER: superconductors

(Tossup 10) In this city, a national memorial cemetery was dedicated within a tuff cone in 1949. Ward Village is a planned upscale community in this city, which contains the largest open air shopping mall in the world, the Ala Moana Center. Tourists to this city can visit a series of nearby extinct volcanic sites, such as the Punchbowl Crater and Diamond Head. Waikiki Beach is part of, for the point, what city on the island of Oahu, the capital of Hawaii?

ANSWER: Honolulu

(Tossup 11) A player from this country was the victim of Vince Carter's "dunk of death" in 2000. A player for this country's national soccer team was redcarded for headbutting Marco Materazzi in the 2006 World Cup Final; that player is Zinedine Zidane [zin-eh-deen zih-dahn]. For the point, name this country whose 2016 Olympic basketball team was led by Tony Parker and Rudy Gobert [go-bear] and which hosted the 1998 World Cup in cities like Toulouse and Bordeaux.

ANSWER: France

(Tossup 12) In a short story by this author, Charlie Wales tries to regain custody of his daughter, Honoria. In another short story by this author, the protagonist is ashamed of the title haircut. This author of “Babylon Revisited” and “Bernice Bobs Her Hair” wrote about the relationship of Anthony and Gloria Patch and one in which the doctor Dick Diver develops feelings for his patient, Nicole Warren. For the point, name this author of *The Beautiful and Damned* and *Tender is the Night*, a prolific Jazz Age author who wrote *The Great Gatsby*.

ANSWER: Francis Scott Key “F. Scott” **Fitzgerald**

(Tossup 13) This country’s “five routes” thrived due to a policy of having feudal lords spend half their time in the capital. This country was rapidly modernized during a restoration of its Imperial throne, though the Boshin War tried to undo that process. The Tokugawa Shogunate ruled, for the point, what Asian island country whose Emperor Meiji renamed its capital from Edo to Tokyo?

ANSWER: **Japan** (accept **Nippon**; accept **Nihon**)

(Tossup 14) Fas receptors activate a caspase necessary for this process. E7 is a protein that inhibits this process in HeLa cells, a strain named for Henrietta Lacks that notably does not do this. DNA fragmentation and mRNA decay are symptoms of this process. It may happen within a cell in apoptosis, or caused by other cells in necrosis. Injury or disease may cause, for the point, what process in which a cell stops functioning?

ANSWER: cell **death** (accept **apoptosis** before mentioned; accept additional information, like programmed cell **death**)

(Tossup 15) In one of this author’s novels, a curse from Holgrave’s ancestor, Matthew Maule, affects Clifford and Hepzibah Pyncheon, residents of the title house. This author’s short stories, including one in which Faith’s pink ribbon is found in the forest by the title “Young Goodman Brown,” are collected in *Twice-Told Tales*. For the point, name this American author of *The House of the Seven Gables* and *The Scarlet Letter*.

ANSWER: Nathaniel **Hawthorne**

(Tossup 16) This man founded COINTELPRO, a series of operations tasked with infiltrating subversive groups, such as the Black Panther Party. This man may have had an illicit relationship with his colleague, Clyde Tolson. This man oversaw the creation of his organization’s laboratory, which was a key figure in early fingerprinting technology. For the point, name this longtime director of the FBI.

ANSWER: John Edgar **Hoover**

(Tossup 17) In this state’s 2016 Senate election, Deborah Ross lost to the incumbent Richard Burr. In May 2017, the Supreme Court ruled that this state’s 1st and 12th Congressional districts had been illegally gerrymandered based on racial lines. This state’s House Bill 2 removed LGBTQ protections on restroom use, caused the NBA to pull the All Star Game from this state. For the point, name this US state where many events were cancelled on the Outer Banks and Charlotte.

ANSWER: **North Carolina**

(Tossup 18) The Nevi'im includes a book named for twelve of these people, including Habakkuk and Malachi. Miriam is one of the few female ones of these people, and Jesus confirmed that John the Baptist was the new coming of Elijah, who had "the word of the Lord in [his] mouth." For the point, name these religious figures who serve as spokespeople for God, allowing them to tell the future.

ANSWER: prophets (accept minor prophets or lesser prophets until Miriam is read)

(Tossup 19) In one work by this author, the title character's nine thousand-ruble debt prevents him funding a trip to Crimea for his sick wife Anna. This author of *Ivanov* wrote a work in which Medvedenko falls in love with Masha and Konstantine Treplev shoots the title animal. Another play by this author is titled for the trees on the estate of Madame Ranevskaya. For the point, name this Russian dramatist who wrote *The Seagull* and *The Cherry Orchard*.

ANSWER: Anton Pavlovich Chekhov

(Tossup 20) The singer of this piece asks the title character to "catch up with a ship on the sea." This piece was originally featured as an interlude between two acts of *The Tale of Tsar Sultan*. John Taylor once played this piece on guitar at a tempo of 600 beats per minute. The Swan-Bird is involved in transforming Prince Gvidon into this piece's title creature. For the point, name this Nikolai Rimsky-Korsakov piece meant to evoke the frantic movement of the title insect.

ANSWER: The Flight of the Bumblebee

(Tossup 21) This man started the War of the Rough Wooing in order to find a wife for his son Edward. He strengthened ties with France by meeting Francis I at the Field of the Cloth of Gold, thanks to the diplomacy of his adviser Thomas Wolsey. This monarch issued the 1534 Act of Supremacy to become head of the Anglican Church after the pope refused to annul his marriage to Catherine of Aragon. For the point, name this Tudor king of England known for his six wives.

ANSWER: Henry VIII

(Tossup 22) A genetic mutation in this organelle leads to Fabry's disease, while in I-cell disease, this organelle fails to receive proteins from the Golgi apparatus. A lack of hexosaminidase A occurs in this organelle in patients with Tay-Sachs disease. This organelle uses proton pumps to maintain an internal pH range of 4.5 to 5. For the point, name this cell organelle that digests macromolecules and waste.

ANSWER: lysosomes

(Tossup 23) Ang Lee led a protest of this event after Chris Rock used offensive Asian stereotypes during it. The record for most retweeted image was once a selfie taken by Ellen DeGeneres while she was hosting one of these events. In 2017, a mistake by PricewaterhouseCoopers led Warren Beatty and Faye Dunaway to mistakenly give *La La Land* this event's highest award. For the point, name this awards show that names the year's Best Director and Best Picture.

ANSWER: The Oscars (accept The Academy Awards)

(Tossup 24) Robert Rogers wrote one of the holy texts of this religion, which celebrates the day on which a key figure landed at Palisadoes Airport. The *Holy Piby* is venerated by followers of this belief system which celebrates Grounation Day. This religion's chief deity is Jah, who was incarnated as Haile Selassie. For the point, name this Jamaican religion whose adherents often wear dreadlocks and smoke cannabis.

ANSWER: Rastafari (accept Rastafarianism)

(Tossup 25) This author wrote a correspondence with Wormwood in *The Screwtape Letters*. In a series of novels by this man, Miraz's successor becomes the tenth King Caspian with the help of the Pevensie children, Lucy, Edmund, Peter, and Susan. For the point, name this English author whose *The Lion, The Witch, and the Wardrobe* describes a journey to Narnia.

ANSWER: Clive Staples "C.S." Lewis

(Tossup 26) One of this planet's moons contains a large crater named Herschel, causing it to greatly resemble the Death Star. This is the least dense planet; indeed, it is less dense than water. When Galileo saw this planet, he noticed what appeared to be ears protruding from it. This planet's moons are all named after titans, including its largest, Titan. For the point, name this sixth planet from the sun, known for its extremely prominent rings.

ANSWER: Saturn

(Tossup 27) The *Alvíssmál* describes a conversation between this god and a dwarf who wants to marry one of his daughters. The giantess Járnsaxa [yarn-sax-ah] gave birth to this god's sons Magni and Modi. This god's chariot is pulled by two goats, and he is married to Sif. The sons of Ivaldi created the short-handled hammer Mjölnir [mee-yoll-neer] for, for the point, what Norse god of thunder?

ANSWER: Thor (accept Donar)

(Tossup 28) This value is the period of the sine and cosine functions, though the tangent function's period is half this size. This value, unofficially nicknamed "tau" by some mathematicians, is the number of radians that equals 360 degrees. For the point, give this value, the circumference of a circle whose radius is 1, approximately equal to 6.28 and exactly equal to double an important circular constant.

ANSWER: 2 pi

(Tossup 29) Randklufts form between these features and rock faces. Colored bands on these features known as ogives result when these features have a higher than normal ablation surface area. The downward motion of these features can erode bedrock in a process called plucking. Valleys formed by the movement of these features are called cirques, and pieces broken off from these features become icebergs. For the point, name these huge, land-based masses of ice.

ANSWER: glaciers

(Tossup 30) This president's refusal to pay Tripoli \$225,000 led to the First Barbary War. In response to Great Britain and France ignoring American neutrality, this man passed the disastrous Embargo Act. Aaron Burr was this man's first vice president because Burr finished second in the election of 1800. The Corps of Discovery was tasked by this man to explore the newly acquired Louisiana Territory. For the point, name this third President of the United States.

ANSWER: Thomas Jefferson

(Tossup 31) To avert a planned increase in the size of this group, one of its members, Owen Roberts, surprisingly switched his ideology. In 1987, the Senate rejected Robert Bork's nomination to this body, and in April 2017, it confirmed Neil Gorsuch's joining of this body to replace Antonin Scalia. For the point, name this nine member body, the highest judicial body in the US.

ANSWER: Supreme Court of the United States (or SCOTUS)

(Tossup 32) The third and fourth words of Robert Frost's blank verse poem "Birches" demonstrate this literary technique, which is used repeatedly in Poe's "The Raven" to describe the type of maiden Lenore was. Shel Silverstein's poem "Picture Puzzle Piece" and the phrase "rare and radiant maiden" demonstrate this technique. For the point, name this literary technique in which a series of words beginning with consonants have similar starting sounds.

ANSWER: alliteration (prompt on consonance; do not accept assonance)

(Tossup 33) The composer of this work may have been inspired by his own earlier piece, *The Voyevoda*, to include a celesta in this work. In this work, a clock strikes eight immediately before Drosselmeyer enters a house. The "Waltz of the Flowers" takes place during Act 2 of this work, for which Lev Ivanov choreographed the "Dance of the Sugar Plum Fairy." Clara journeys to the Land of Sweets with a prince who tells her a story about the Mouse King in, for the point, what Peter Tchaikovsky ballet that is often performed during Christmastime?

ANSWER: The Nutcracker

(Tossup 34) If this type of process is classified as first-order, it progresses at a rate proportional to the concentration of one of its inputs. Equilibrium is reached when the forward and reverse types of these processes have the same rate. These processes proceed faster with a catalyst and may cause a change in color or temperature. The form *and* composition are changed in, for the point, what type of process, such as combustion or the combining of two chemicals?

ANSWER: chemical reaction

(Tossup 35) This man founded a motion picture company that used a kinoscope to film *Electrocuting an Elephant*. This man feuded with George Westinghouse in the War of the Currents, a dispute that also involved his former employee, Nikola Tesla. An innovation by this man incorporated a carbon filament and was developed by his research team at Menlo Park. For the point, name this American inventor who revolutionized the light bulb.

ANSWER: Thomas Edison

Extra Question

Only read if moderator botches a question.

(Tossup 36) Widukind was a leader of these people when they were slaughtered at the Massacre of Verden by the army of Charlemagne. A German province named after these people is centered at Munich. These people co-established a set of seven kingdoms collectively called the Heptarchy, which included Northumbria and Wessex, with the Angles. For the point, name this group that controlled England until the 1066 Norman conquest.

ANSWER: Saxons (anti-prompt on Anglo-Saxons)