

# Academic Bee 1 - Playoffs

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## Regulation Tossups

(1) In this play, a speech given before the Battle of Philippi [[FIL-ih-pai]] describes an “honorable man” who plots with Casca and Cicero, and implores “Friends, Romans, countrymen, lend me your ears.” In this play, Calpurnia warns her husband not to go to the Capitol on the Ides of March, but fails to stop his death. For the point, name this Shakespeare play in which Cassius and Brutus assassinate the title Roman statesman.

ANSWER: *The Tragedy of* **Julius Caesar**

(2) One offshoot of this sect led by James Strang settled in Beaver Island, Wisconsin. This sect’s founder was killed by a mob at the Carthage, Illinois courthouse after he seized power in neighboring Nauvoo. Followers of this sect established the territory of Deseret [[deh-suhr-EHT]] under the leadership of Brigham Young. For the point, name this Christian sect founded by Joseph Smith which has historically dominated the politics of Utah.

ANSWER: Church of Jesus Christ of **Latter Day Saints** (accept **LDS** Church; accept **Mormons** or **Mormonism**)

(3) This scientist’s namesake coefficients describe the probabilities of emission and absorption. This scientist won the Nobel Prize in Physics for explaining an effect in which light causes the emission of electrons. During this man’s *Annus Mirabilis*, he released papers explaining time dilation and length contraction, as well as the photoelectric effect. For the point, name this scientist who described special relativity and wrote the equation  $E=mc^2$  [[E equals M C squared]].

ANSWER: Albert **Einstein**

(4) Writers with this last name included a rhyme by Dortchen Wild about a wind and a heavenly child in a story in which a brother and sister use white pebbles to find their way home. “Aschenputtel” [[AH-shen-poo-tuhl]] was collected by those writers with this last name, whose *Children’s and Household Tales* included “Hansel and Gretel.” For the point, what last name is shared by Jacob and Wilhelm, German brothers who recorded European fairy tales like “Beauty and the Beast” and “Snow White?”

ANSWER: **Grimm** (accept Brothers **Grimm**; accept Jacob **Grimm** or Wilhelm **Grimm** before mentioned)

(5) During this U.S. presidential election year, James Stockdale opened a debate by asking "Who am I? Why am I here?" The incumbent candidate in this election year was criticized for breaking his promise, "Read my lips: no new taxes." In this election year, the former CEO of Electronic Data Systems, Ross Perot, captured nineteen percent of the popular vote as a third party candidate. For the point, name this election year in which George H.W. Bush lost to Bill Clinton.

ANSWER: **1992**

(6) The primary mining sources of this mineral are Kimberlite pipes. This mineral is used to cover the tip of a device used in the Vickers test. Applying high pressure and heat to graphite can be used to grow this mineral in laboratory settings. This mineral has a value of ten on the Mohs hardness scale. For the point, name this extremely hard allotrope of carbon which is commonly used in engagement rings.

ANSWER: **Diamonds**

(7) Active volcanoes on this island include Mount Koma and Mount Usu. This island's Shiretoko National Park is designated a UNESCO World Heritage Site. The La Perouse Strait separates this island from Sakhalin in the north, while the Tsugaru strait lies to its south. This island, whose major cities include Asahikawa and Sapporo, is home to most of the remaining Ainu people. For the point, name this northernmost major island of Japan.

ANSWER: **Hokkaido**

(8) This man's totient [[TOH-shent]] function counts the number of coprime positive integers that are less than the input, and he also names a formula for taking a complex exponential. This man solved the Seven Bridges of Königsberg problem. This man names a constant that when raised to the i-pi [[EYE PIE]] power equals negative 1 and is the base of the natural logarithm. For the point, name this Swiss mathematician who names a number equal to about 2.718 and symbolized "e."

ANSWER: Leonhard **Euler** [[OY-lehr]]

(9) Works of this type instruct that deacons should be "married only once" and were written for Philemon [[fye-LEE-muhn]], Titus, and Timothy. A book of this type says "when I was a child, I spoke as a child, I felt as a child, I thought as a child" and appears after the Book of Acts in the New Testament. For the point, the biblical books attributed to the Apostle Paul were originally what kind of communication addressed to groups like the Corinthians and the Romans?

ANSWER: Open **letters** (accept **Epistles**; accept **letters** or **epistles** written by the Apostle Paul and similar answers before mentioned; prompt on "books of the Christian Bible," "books of the New Testament," and similar answers)

(10) In French writer Jean de la Fontaine's story with this title, a group of workers refuse to issue a loan "when the north wind blows." Adapted from an ancient fable, in de la Fontaine's version, one of the title creatures is told to "dance now" since she spent the entire summer singing. For the point, name this fable attributed to Aesop in which an idle insect begs for food from a group of hard workers when winter arrives.

ANSWER: The **Ant and the Grasshopper** (or The **Grasshopper and the Ant(s)**; or Le **cigale et la fourmi**)

(11) Members of this organization fled to Portugal and founded the Order of Christ following the issuing of the bull, *Vox in excelso* [[EK-SHEL-SOH]]. Under the leadership of Jacques de Molay, this organization was disbanded on the orders of King Philip IV. This organization, which was based in the Temple of Solomon, bore a standard bearing a red cross on a white background. For the point, name this Christian military order sworn to protect pilgrims heading to Jerusalem.

ANSWER: Knights **Templar** (or **Templars**; accept Order of **Solomon's Temple** before mentioned; accept Poor Fellow-Soldiers of Christ and of the **Temple of Solomon** before mentioned))

(12) This type of reaction is exemplified by one named for Erik Christian Clemmensen in which ketones are turned into alkanes. The Birch example of this type of reaction transforms aromatic rings into cyclo-hexa-dienes [[DYE-eens]]. Aldehydes are converted to alcohols by a reaction of this type. This type of reaction involves lowering charge by gaining electrons. For the point, name this type of reaction which is combined with oxidation in the redox reaction.

ANSWER: **Reduction** (prompt on "Redox" reaction before mentioned)

(13) John Berger claims that viewers "underestimate the brutality" of this work whose eyes are described as "[looking] out as if at death." This painting led Georges Braque to befriend its painter. African art is thought to have inspired the mask-like faces of this painting's title group who worked on a namesake street in Barcelona. For the point, name this angular painting by Pablo Picasso depicting the title group of five women.

ANSWER: *Les* **Demoiselles D'Avignon** ([[lay day-mwah-ZELL dah-veen-YAWH]], but be very lenient with pronunciation, accept translations into English which basically mean The "Young Ladies of **Avignon**")

(14) In 2015, this company announced a mile-long hyperloop outside of its Hawthorne, California headquarters. This company's Falcon 9 vehicle is used to launch the Dragon 1 Pod, which resupplies the International Space Station. Like Tesla, this company is operated by the unorthodox South African entrepreneur, Elon Musk. For the point, name this private outer space transportation services company.

ANSWER: **SpaceX** (or **Space Exploration Technologies Corporation**)

(15) The third of these works includes the note “the drunkards have fallen asleep” and is set to a sonnet describing hunters and their dogs. These works are included in *The Contest Between Harmony and Invention* and feature sections that imitate a thunderstorm and a birdsong with trills on a high-pitched string instrument. For the point, name this set of four violin concertos by Antonio Vivaldi which begins with “La Primavera,” or “Spring.”

ANSWER: *The **Four Seasons*** (or *Le **quattro stagioni***; prompt on "works by Vivaldi" and similar answers before mentioned)

(16) A collection by this author includes the short story “Ylla” and describes a “golden-eyed” humanoid race. An automatic house operates in a post-nuclear wasteland in this author’s “There Will Come Soft Rains.” Mildred reports her husband to Beatty for reading poetry in a novel by this man. Fireman Guy Montag becomes conflicted about burning books in a novel by, for the point what American science fiction author of *The Martian Chronicles* and *Fahrenheit 451*?

ANSWER: Ray **Bradbury**

(17) This man helped Big Bill Thompson come to power in the Pineapple Primary. This husband of Mae Jo Coughlin was the first person in America to be referred to as “Public Enemy Number One.” This man was jailed in 1933 for tax evasion after prosecutors failed to find sufficient evidence to convict him of the St. Valentine’s Day Massacre. “Scarface” was the nickname of, for the point, what prohibition-era Chicago gangster?

ANSWER: Al **Capone**

(18) A syndrome named for this process is related to neural crest cell development and can result in drooping ears, spotted coats, and shortened snouts. For this process to occur, a species must be docile and not afraid of humans. Unlike taming, this process is inherited. Dogs were likely the first animal to undergo this process as they evolved from wolves. For the point, name this process in which an animal is adapted for human use.

ANSWER: **Domestication** (accept word forms such as **Domesticate**; accept descriptive answers describing making animals **Domestic**; prompt on "evolution" before mentioned)

(19) This artist sculpted a nude man raising a hand in *St. John the Baptist Preaching*, a larger-than-life sculpture he made to refute accusations that he had cast his work *The Age of Bronze* from a living man. This sculptor depicted Paolo and his sister-in-law, Francesca da Rimini, embracing in *The Kiss*, a part of this man’s *Gates of Hell*. For the point, name this French sculptor of bronze works like *The Burghers of Calais* and *The Thinker*.

ANSWER: Auguste **Rodin** [[ro-DAH]]

(20) This river was the drainage route for the Lake Bonneville Floods, and this river's mouth is located in Walla Walla County near the city of Burbank. This river's course passes over the Shoshone Falls and Twin Falls. This river, which originates in Yellowstone National Park, carves out the Hells Canyon. For the point, name this Pacific Northwest river, the largest tributary of the Columbia River.

ANSWER: **Snake** River

(21) Sphenic numbers are a subset of this type of number and are the product of three numbers which are not this type of number. It's not pronic, but these numbers can be called "rectangular." All of these numbers must have at least three factors including one and itself. The number one is the only positive integer that is not this type of number or prime. For the point, name this type of number, formed by multiplying two smaller, positive integers.

ANSWER: **Composite** number

(22) A work from this collection says, "I have treasur'd every note" while sympathizing with a widowed bird in "Out of the Cradle Endlessly Rocking." A poem in this collection reminisces about when "the great star early droop'd in the western sky" while eulogizing Abraham Lincoln, and another declares, "I celebrate myself and sing myself." "When Lilacs Last in the Dooryard Bloom'd" and "Song of Myself" are collected in, for the point, what book of poetry written by Walt Whitman?

ANSWER: **Leaves of Grass**

(23) Artifacts recovered from this civilization include statues of the "Priest King" and "Dancing Girl." This civilization constructed the Lothal docks which were likely used to import goods into Harappa. This civilization established an early example of indoor plumbing and flush toilets in its city of Mohenjo-Daro. Based around a river that today empties into the Arabian Sea near Karachi, for the point, what is this ancient civilization?

ANSWER: **Indus** Valley Civilization (accept **Harappan** Civilization before mentioned)

(24) This compound and carbon dioxide are components in the Boudouard [[boo-DWARD]] reaction. This compound can be produced by incomplete combustion of organic matter. This compound has an affinity for hemoglobin that is 250 times higher than that of oxygen, so Mercaptan [[mehr-KAP-tan]] is added to natural gas to prevent poisoning caused by inhaling this compound. For the point, name this colorless and odorless poisonous gas which contains one atom of carbon and one atom of oxygen.

ANSWER: **Carbon monoxide** (accept **CO** [[SEE-OH]])

(25) One of these body parts is used in Caodai [[KOW-DAI]] to represent God. In Dharmic belief, the *ajna chakra* is related to one of these body parts, which is itself related to intuition and the subconscious. The god Shiva is frequently depicted with one of these body parts in the middle of his forehead. For the point, name this body part, a “third” one of which can represent an ability to see beyond the physical world.

ANSWER: **Eyes** (accept Third **eye**; accept left **eye** of God before "ajna")

(26) This philanthropist, in coordination with Adar Poonawalla, pledged hundreds of millions of dollars to bring the COVID-19 vaccine to the poorest people in the developing world. This man and his wife, Melinda, agreed to give 99 percent of their wealth to charity upon their passing. For the point, name this man who, with Paul Allen, founded the company Microsoft.

ANSWER: Bill **Gates**

(27) Deuterium and helium were made in a nucleosynthesis named after this event which is dependent upon the homogeneous and isotropic distribution of matter, known as the cosmological principle. The existence of cosmic microwave background radiation supports this theory, which was described by Georges Lemaître as interpreting the expansion of the universe in reverse. Followed by cosmic inflation, for the point, name this theory that the universe exploded outward from one infinitely dense singularity.

ANSWER: **Big Bang** Theory

(28) According to Callimachus, this deity was to be called "Light Bringer" and to be served by sixty Oceanids. This deity ruled over midwives and protected women during childbirth. This daughter of Leto asked her father to place her follower, Orion, in the heavens, and the crescent moon was represented by this goddess's bow. For the point, name this twin sister of Apollo, the Greek goddess of the hunt.

ANSWER: **Artemis** (do not accept or prompt on "Diana")

(29) In this novel, the discovery of a cylinder near Ottershaw leads to the deaths of Stent, Henderson, and an astronomer named Ogilvy. Military units in this novel vaporize the citizens of Woking and London using Heat-Rays fired from their tripods and die out, along with a fast-spreading “red weed,” because they are not immune to human diseases. For the point, name this novel by H.G. Wells in which Martians invade Earth.

ANSWER: *The* **War of the Worlds**

(30) This man used the alias Careu [[kuh-ROO]] Kent to carry out affairs with three German women. This man, a strong proponent of the America First Committee, received a sizable reward from Raymond Orteig [[or-TAYG]] for a 1927 feat. The Federal Kidnapping Act was passed after Bruno Richard Hauptmann kidnapped and murdered this man's infant son. For the point, name this pilot of the *Spirit of St. Louis*, the first man to make a solo flight across the Atlantic Ocean.

ANSWER: Charles **Lindbergh**

**Extra Question**

(1) At the end of this novel, the title man refuses to eat with humans, and instead spends time with horses who remind him of Houyhnhnms [[HOO-win-ims]]. This novel's protagonist is kept in a box as a pet and witnesses disagreements between Big-Endians and Little-Endians as he voyages to the countries of Brobdingnag and Lilliput. For the point, name this novel by Jonathan Swift about the title doctor's journeys through countries populated by giants, talking horses, and six-inch-tall people.

ANSWER: **Gulliver's Travels** (or **Travels into Several Remote Nations of the World**. *In Four Parts. By Lemuel Gulliver, First a Surgeon, and then a Captain of Several Ships*)