

Academic Bee 1 - Round 1

Regulation Tossups

(1) This state's flagship university was the site of the "Stand in the Schoolhouse Door," an attempt to prevent racial integration. During one protest in this state, Bull Connor ordered the use of fire hoses and police dogs against child protesters. This state's governor, George Wallace, refused to provide protection to the Selma Marchers in this state. For the point, name this southern American state.

ANSWER: **Alabama**

(2) This plant's *moso*, or tortoise-shell, species is used to make fabric in Japan and Taiwan. Despite its rigid nature, this plant lacks xylem and is instead reinforced with vascular bundles. Due to its renewability, this plant can replace wood in kitchenware. Some species of this plant can grow an inch every forty minutes. For the point, name this Asian grass which is the primary food of the Giant Panda.

ANSWER: **Bamboo**

(3) As part of this movement, Berthe Morisot [[BAYR-tuh moh-ree-SOH]] painted a woman and a child in *On the Balcony*. Another work in this movement was *The Child's Bath* by Mary Cassatt [[kuh-SAHT]]. Painters in this movement used large dabs of color to capture the shifting of natural light, and it reached its peak in France in the late nineteenth century with a series of paintings titled *Water Lilies*. For the point, identify this art movement named for a painting of a sunrise created by Claude Monet.

ANSWER: **Impressionism** (accept word forms such as **Impressionist**)

(4) It isn't a "reef," but the "barrier" type of these features most often form as a result of breaking off of a spit. Chains of the "volcanic" type of these features can be created by the increased volcanism of hot spots. Small kinds of these features made of coral are called atolls. Large groups of these features are called archipelagos. For the point, name these masses of land which are surrounded on all sides by water.

ANSWER: **Islands** (accept **Archipelagos** before mentioned)

(5) In a work by this author, the title character helps Mr. Brownlow break up Bill and Fagin's gang. In that same novel by this author, a young boy helps out the Artful Dodger after leaving a workhouse, and this author also wrote a novella in which the ghost of Jacob Marley appears to warn his former business partner, Ebenezer Scrooge. For the point, name this English author who described London's poor in *Oliver Twist* and *A Christmas Carol*.

ANSWER: Charles **Dickens**

(6) An analogue for cosine named for these functions can be defined as "cosine of i times x" and these curves show the path of a sundial's shadow. These curves have an eccentricity over 1, and can be modeled by cutting a double cone so the plane intersects both halves. This curve is the result of the function "y equals one over x." For the point, name this conic section, with two mirrored curves.

ANSWER: **Hyperbola** (or **Hyperbolic** conic section; or **Hyperbolic** curve)

(7) Examples of these objects in Egyptian myth were named Mandjet and Mesektet, or "of Millions of Years" and "of the Evening," and traveled through gates in the underworld representing the hours of the night. Set lost a race in one of these vehicles made of stone after Horus painted a wooden one which appeared as if it were made of stone, thus allowing it to float. The Egyptian god Ra traveled in one of, for the point, what type of vehicles, which sailed across the sky?

ANSWER: **Boat** (accept synonyms for **Boat** such as **Ship** or **Barge**; accept **Barque**; accept **Atet**)

(8) A manservant in this novel topples a human pyramid at the Long Noses circus in Yokohama when he recognizes his employer, who immediately takes him to America. While arranging Aouda's wedding in this novel, Passepartout [[pahs-par-TOO]] learns that crossing the international dateline has allowed him to get back to London a day earlier than expected. For the point, name this Jules Verne novel in which Phileas Fogg wins a bet by quickly circumnavigating the globe.

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

(9) This artist sculpted Saint Mark for the church of Orsanmichele [[or-sah-mih-KEH-lay]] and depicted Erasmo da Narni on his horse in his *Gattamelata*. In another sculpture by this artist, a young man casually holds a sword and wears only a pair of high-laced sandals and a wide-brimmed hat as he stands over the head of his enemy, the giant Goliath. For the point, name this Italian Renaissance sculptor of a bronze *David*.

ANSWER: **Donatello** (or **Donato** di Niccolò di **Betto Bardi**; accept either underlined portion of full name)

(10) This dynasty sent General Ma Yuan to suppress the Trung sisters in Vietnam. Following a rebellion by Wang Mang [[WAHNG MAHNG]], this dynasty was briefly interrupted by the Xin [[SHIN]] dynasty. The Yellow Turban Rebellion contributed to the downfall of this dynasty which was followed by the Three Kingdoms period. The Qin [[CHIN]] dynasty was succeeded by, for the point, what dynasty which shares its name with China's largest ethnic group?

ANSWER: **Han** Dynasty (or **Han**chao)

(11) Lorenzo de Medici established an institution named for this philosopher which translated this man's works such as *Euthydemus* [[you-thih-DEE-muss]]. This thinker names a "New" philosophy practiced by the writer of the *Enneads*, Plotinus [[plah-TIE-nuss]]. Glaucon [[GLAW-kon]] and this man's teacher have a discussion in this man's "Allegory of the Cave," found within the *Republic*. For the point, name this student of Socrates who founded the Academy in Athens.

ANSWER: **Plato**

(12) The first definitive observations of this body were made by John Flamsteed, and Martin Klaproth helped prevent this body from being named George's Star. Unexpected perturbations in this body's orbit led to the prediction of Neptune's existence by Alexis Bouvard. This planet's moons are named for characters from the works of Alexander Pope and William Shakespeare. Known for its perpendicular axis of rotation, for the point, what is this seventh planet from the Sun?

ANSWER: **Uranus**

(13) This man's father gave a strange blessing to this man's sons, Ephraim and Manasseh. This man gave a prophecy to a baker, a cup-bearer, and the Pharaoh by interpreting their dreams. Potiphar's wife tried to seduce this Biblical man who was sold as a slave in Egypt by the sons of Leah. For the point, name this son of Jacob and Rachel whose eleven brothers resented his beautiful coat.

ANSWER: **Joseph** (or **Yosef**; or **Yusuf**; or **Yosep**)

(14) Three policemen in this story speak with a man who becomes obsessed with a sound like a watch "enveloped in cotton." This story's narrator practices slowly opening a lantern every night for a week before he dismembers an old man to destroy his "vulture eye." For the point, name this Edgar Allan Poe short story whose narrator confesses to killing his housemate when he thinks he hears the beating of the title organ under his floor.

ANSWER: **"The Tell-Tale Heart"**

(15) This man controversially stated "Vive le Québec libre" while in Canada on the pretext of visiting Expo 67. Jean Bastien-Thiry attempted to assassinate this leader for his decision to accept Algerian independence. In May 1968, protests in this man's country forced him to secretly flee Paris. For the point, name this World War Two hero, the first president of France's Fifth Republic.

ANSWER: Charles **de Gaulle**

(16) Ernst Mach defined this quantity as the resistance of an object to acceleration, which he termed the "inertial form" of this quantity. This quantity is mediated by the Higgs boson and, unlike weight, is independent of gravitational forces. According to Newton's second law, force is equal to this quantity times acceleration. For the point, name this physical quantity whose base SI unit of measure is the kilogram.

ANSWER: **Mass**

(17) Corrie ten Boom detailed her survival of this event in her autobiography *The Hiding Place*. Ellen is saved from this event in the Lois Lowry novel *Number the Stars*. A nonfiction manuscript written during this event was addressed to "Kitty" and was retrieved by Miep Gies [[MEEP GEES]] from the Achterhuis [[OCH-tuhr-howss]], a hidden annex in Amsterdam. For the point, name this event, the historical setting of *The Diary of a Young Girl* by Anne Frank.

ANSWER: **Holocaust** (or the **Shoah**; prompt on "World War Two" or similar answers; anti-prompt on "imprisonment in a concentration camp" and similar answers before "Number the Stars")

(18) The distribution of this crop into French colonies was run by a group of "Lords" based out of Glasgow, Scotland. Varina Farms was founded to grow the *Orinoco* strain of this crop. Cultivation of this crop allowed Jamestown to become economically viable. For the point, name this cash crop of the American southeast, the primary ingredient in snuff and cigarettes.

ANSWER: Cultivated **tobacco**

(19) Bergschrunds [[BERK-shroonts]] are large clefts that form in these objects. The process of breaking up these objects is known as "calving," and tarns can form in the cirques left behind by these objects. Dome-shaped depressions formed by these objects are known as drumlins. Sediment and rocks left behind by these objects are known as till and moraines. For the point, name these large sheets of slow-moving ice.

ANSWER: **Glaciers**

(20) This author wrote a novel about Anthony Patch and Gloria Gilbert which was generally based on his relationship with his wife, Zelda. This author referenced his own novel, *This Side of Paradise*, in another novel, *The Beautiful and the Damned* and wrote about Jordan Baker dating Nick Carraway in the town of East Egg, New York. For the point, name this Jazz Age author who wrote about Tom and Daisy Buchanan in *The Great Gatsby*.

ANSWER: F. Scott **Fitzgerald**

(21) A ruler of this kingdom created a land redistribution plan called the Great Mahele. This kingdom's monarch was overthrown by the Committee of Safety whose members included Lorrin A. Thurston and Sanford B. Dole. In 1887, a ruler of this kingdom, Kalakaua, was forced to sign the Bayonet Constitution. Wealthy Americans overthrew, for the point, what kingdom whose land became the 50th US state?

ANSWER: Kingdom of **Hawaii** (accept **Hawaiian** Kingdom)

(22) The maximum number of atoms of this element that can be in an organic compound is given by the formula "2 C plus N plus two." This element is reacted with nitrogen in the Haber-Bosch [[HAH-buhr BOSH]] reaction. Nuclear reactors use this element's deuterium isotope as a coolant in the form of "heavy water." This element's "plus 1" ion is equivalent to a lone proton. For the point, name this lightest element, symbolized H.

ANSWER: **Hydrogen** (accept **H** before mentioned)

(23) This number names a Beethoven piano concerto which was dedicated to Archduke Rudolph and is nicknamed "Emperor." Beethoven's symphony of this number includes a "fate knocking at the door" motif with a "short, short, short, long" rhythm. In the key of C Major, the note "G" has this scale degree. For the point, give this number, the number of lines in a musical staff as well as the number notes in a pentatonic scale.

ANSWER: **Five** (accept Piano Concerto Number **Five** or **Fifth** Piano Concerto; accept **Fifth** Symphony or Symphony Number **Five** in C minor)

(24) This mythical figure was forced to wear women's clothes while living with Queen Omphale who wore this man's impenetrable lion pelt during his stay. This son of Alcmene killed two serpents while he was a baby, and atoned for killing his wife and children by cleaning the Augean stables, slaying the Nemean Lion, and ten other difficult tasks. For the point, name this legendary strongman from Greek myth who performed Twelve Labors.

ANSWER: **Heracles** (accept **Hercules**)

(25) This city's official "birthplace" is named Allen's Landing, and major skyscrapers in this city include Williams Tower and the JPMorgan Chase Tower. Suburbs of this city include Sugarland, League City, and Pearland. The Buffalo Bayou flows primarily through this city which is the largest city along Galveston Bay and the county seat of Harris County. This city's official nickname is "Space City," referencing this city's Johnson Space Center. For the point, name this largest city in Texas.

ANSWER: **Houston**

(26) This is the smallest untouchable number, and Fermat's Last Theorem applies for any integer higher than this number. This is the largest number written the same in hexadecimal, ternary, and decimal notation. Mersenne primes are found using powers of this number which also represents the gap between twin primes. For the point, name this smallest and only even prime number.

ANSWER: **Two**

(27) Brad Schneider is this state's last remaining Blue Dog Coalition member following Dan Lipinski's 2020 primary defeat by Marie Newman. One powerful political family from this state includes Michael and his daughter, Lisa Madigan, and this state is represented by House members Rodney Davis and Adam Kinzinger and Senators Tammy Duckworth and Dick Durbin. For the point, name this Midwestern state whose governor, J.B. Pritzker, leads from the capital of Springfield.

ANSWER: **Illinois**

(28) This novel's protagonist is surprised to learn that a museum in Victory Square was once St. Martin's church and is confused when he hears a rhyme about "oranges and lemons" from Mr. Charrington. In this novel, a worker at the Ministry of Truth illegally meets Julia in an antiques store and is punished for "Thoughtcrimes" by O'Brien. For the point, name this novel by George Orwell in which Winston Smith defies the government led by Big Brother.

ANSWER: **Nineteen Eighty-Four**

(29) This essential nutrient is synthesized in the Reichstein process, and ingesting it can boost iron absorption. This nutrient serves as a cofactor for synthesizing collagen. Linus Pauling proposed consuming "superdoses" of this nutrient to fight colds, and deficiency of this vitamin can cause scurvy. For the point, name this vitamin, also known as ascorbic acid, which supports the immune system and is readily present in citrus fruits.

ANSWER: Vitamin **C** (accept **Ascorbic** acid before mentioned; accept **Ascorbate**)

(30) Along with Wilford John Willy, a member of this family died in 1944 due to an explosives malfunction during Operation Aphrodite. In 1969, a member of this family failed to report the death of Mary Jo Kopechne [[ko-PEK-nee]] after the Chappaquiddick Incident. A member of this family who had previously served as US Attorney General was assassinated by Sirhan Sirhan. For the point, name this prominent Massachusetts family which included John Fitzgerald.

ANSWER: **Kennedy**

Extra Question

(1) These animals possess valves in their neck arteries that close when they bend down to drink water. These animals have unusually strong oesophageal muscles which allow for regurgitation and rumination. Subspecies of these animals include the Masai and Reticulated varieties. For the point, name these tallest living land animals, known for their brown spots and long necks.

ANSWER: **Giraffe**