

2020 SCOP A

## Round 4

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### Tossups

(1) **This agreement was negotiated by Robert R. Livingston after a European power gave up its New World ambitions due to Toussaint L'Ouverture's slave rebellion in Saint-Domingue. One side in this agreement spent fifteen million dollars to nearly (\*) double the size of the United States. Thomas Jefferson sent Lewis and Clark to explore the land gained from this agreement. For ten points, name this 1803 agreement with France that secured New Orleans and its surrounding territory for the United States.**

ANSWER: Louisiana Purchase (accept Vente de la Louisiane or Sale of Louisiana)

(2) **In a painting by this artist, a young girl stands with her back to the viewer while an old man lifts a cup toward a woman pouring tea. This artist was inspired by the view from an asylum to paint a high-spired church in the village of Saint-Rémy in a dark valley under a (\*) sky filled with swirling balls of light. For ten points, name this Dutch painter of *The Potato Eaters*, who was institutionalized for cutting off his ear lobe when he painted *Starry Night*.**

ANSWER: Vincent Van Gogh (accept Vincent Willem Van Gogh)

(3) **This god was the patron of Nekhen, which became Hiera-kon-polis in the Hellenic era because of its association with this god's representative animal. This god's four sons protected the organs of mummies in canopic jars. This god tricked his uncle with contaminated lettuce and by painting a (\*) wooden boat to look like stone. The wadjet eye was the representation of this nephew of Set. For ten points, name this Egyptian god, the son of Isis and Osiris, who was often depicted with the head of a falcon**

ANSWER: Horus (accept Hor or Har; prompt on "Nekheny")

(4) **A system designed by Henry Barton uses a connected set of these objects that resembles a Newton's Cradle. These objects' precession demonstrates the Earth's rotation, as described by Léon (\*) Foucault. The small angle approximation allows "two pi times root L over the acceleration due to gravity" to describe the periods of these objects. For ten points, name this type of simple harmonic oscillator consisting of a weight on the end of a massless string, which is used to keep time in grandfather clocks.**

ANSWER: pendulums (accept pendula; accept Barton's pendulums; accept Foucault('s) pendulum; prompt on "simple harmonic oscillator" or "harmonic oscillator" before it is read)

(5) **In Saint Clement’s Church, this novel’s protagonist tells his girlfriend that his estranged wife, Katharine, is “goodthinkful.” In this novel, another former church in Victory Square prompts a discussion in Mr Charrington’s antiques shop in (\*)** Airstrip One, where the protagonist meets Julia when he’s not busy working at the Ministry of Truth. O’Brien sends Winston Smith to Room 101 for re-education in, for ten points, what novel about the totalitarian government of Big Brother, written by George Orwell?

ANSWER: Nineteen Eighty-Four

(6) **After this country’s 1848 revolution failed, Lajos Kossuth went into exile in the United States and Franz Joseph I installed military rule. In 1867, this country became a kingdom in a dual monarchy with a (\*)** Habsburg-led empire. The Chain Bridge helped unify two cities on opposite sides of the Danube that, in 1873, merged into this country’s capital city. For ten points, name this European country that neighbors Austria and has the capital city Budapest.

ANSWER: Hungary (accept Magyarország; accept Austria-Hungary or Austro-Hungarian Empire after “1867” is read)

(7) **This poet wrote about a character who “passed the Setting Sun” in a carriage whose “Horses’ Heads / were toward Eternity.” A poem by this author describes a speaker who “signed away / what portion of me be / assignable” and hears a (\*)** “Blue - uncertain - stumbling” sound when “I could not see to see.” In another poem by this writer, a character “kindly stopped for me” and carries the speaker to the afterlife. For ten points, name this American poet of “I heard a Fly buzz - when I died -” and “Because I could not stop for Death.”

ANSWER: Emily Dickinson (accept Emily Elizabeth Dickenson)

(8) **Ptolemy created a table of chords used in this branch of mathematics. This branch of math studies three Pythagorean identities and several pairs of co-functions modeled by a unit circle. The mnemonic (\*)** “SOHCAHTOA” [soh-kah-toh-ah] is often taught to students in this branch of math to remember its three basic relationships. Triangle side lengths and angles are studied in, for ten points, what branch of mathematics that introduces the functions “sine,” “cosine,” and “tangent?”

ANSWER: trigonometry

(9) **In 2020, teams playing in this state were assigned to stay at the Yacht Club or Grand Destino Hotels based on their season record so they could access this state’s Wide World of Sports Complex in Bay Lake. A player trademarked the name (\*)** “Lemon Pepper Lou” after leaving a facility in this state in search of chicken wings. Despite winning eight consecutive games in this state, the Suns were excluded from a playoff structure played entirely in this state. For ten points, the NBA finished their season in a “bubble” in what state’s Disney World park, near Orlando?

ANSWER: Florida

(10) **Rounding is simultaneous with this process in most cells. This process is preceded by a phase with G1, S, and G2 stages. This process has an opening phase in which the nucleolus disappears, and is followed by (\*) cytokinesis.** During this process, spindle fibers move centromeres to the equator and chromosomes condense. Metaphase and anaphase are parts of, for ten points, what phase of cell division that results in identical body cells, unlike meiosis [my-oh-sis]?

ANSWER: mitosis (prompt on “cell division” before it is read; prompt on “prophase” before “cytokinesis” is read)

(11) **In response to a question from Chaerephon, the Pythian oracle stated that no one was wiser than this philosopher, who claimed to know that he knew nothing. This (\*) “gadfly of the state” said that an “unexamined life is not worth living” while being sentenced to drink hemlock for corrupting the youth of Athens, as described in his student’s *Apology*.** For ten points, name this Greek philosopher, a predecessor of Aristotle, whose “dialogues” were recorded by Plato after his death.

ANSWER: Socrates

(12) **According to the Kuma-rasam-bhava, this god burned Kama, the love god, for interrupting his meditation, and helped defeat Taraka by becoming the father of Karti-keya. This god is also called Nata-rajā, the (\*) “lord of the dance,”** and is often depicted with a third eye and the Ganges River flowing out of his hair. This god is the father of Ganesha and the husband of Parvati, and forms the Trimurti with Brahma and Vishnu. For ten points, name this Hindu destroyer god.

ANSWER: Shiva (accept Siva; accept Nataraja before it is read)

(13) **A motel in this city lost a landmark 1964 lawsuit seeking to discriminate against Black patrons. Martin Luther King sang in a children’s choir at this city’s premiere of the film *Gone With the Wind*.** (\*) Booker T. Washington promoted a “Compromise” named for this city, which was burned at the start of William Tecumseh Sherman’s March to the Sea. The 1996 Summer Olympics were held in, for ten points, what capital city of Georgia?

ANSWER: Atlanta

(14) **The most recent of these events, nicknamed for Wisconsin, included the advance of the Laurentide and Cordilleran Sheets. Much of the fourteenth through nineteenth centuries are nicknamed a “little” one of these events, and the (\*) “Huronian” one immediately preceded a mass extinction as sea levels receded.** Events of this type called the Sturtian and Marinoan occurred during the Cryogenian period, during which a hypothetical “Snowball Earth” may have occurred. For ten points, name these extremely cold geologic events.

ANSWER: ice ages (accept glaciations; accept glacial ages; accept glacial episodes; accept glacial periods)

(15) **A character in this short story receives an invitation from the Minister of Public Instruction, and gives his wife money he had been saving for a hunting rifle to buy a party dress. When this story’s protagonist meets Madame (\*) Forestier [foh-ress-tee-AY] in a park, she is shocked to learn that ten years of work to repay a forty-thousand-franc debt have been unnecessary.** For ten points, name this Guy de Maupassant [ghee duh moh-pah-SAWN] short story in which Mathilde Loisel [luh-wah-ZELL] spends a fortune to replace the title lost piece of jewelry, only to find that the original was fake.

ANSWER: The Necklace (accept The Diamond Necklace; accept La Parure)

(16) **Becher and Stahl proposed that this type of reaction was caused by the element phlogiston. This kind of reaction can occur above the flash point, and is incomplete without sufficient oxygen. A test named for one of these reactions has a (\*) yellow result for sodium and a blue-green result for copper. Detonation is a rapid form of this oxidation reaction, in which the consumption of a hydrocarbon fuel produces water vapor and carbon dioxide. For ten points, name this type of exothermic reaction that frequently occurs in fires.**

ANSWER: combustion (accept word forms like combusting; accept burning; accept fire or flame before “fire” is read; prompt on “oxidation” before it is read; prompt on “exothermic” before it is read)

(17) **Two decades after this ruler’s death, a pair of his followers named Lysimachus and Antigonus fought each other at the Battle of Ipsus. This man won the Battle of Issus over Darius III of (\*) Persia in 333 BCE, ten years before he died in Babylon. This son of Philip II never lost a battle. For ten points, name this ruler of Macedon whose empire, stretching from Greece to India, was one of the largest empires of the ancient world.**

ANSWER: Alexander the Great (accept Alexander III of Macedon)

(18) **Johann Strauss, Senior wrote a work in this genre commemorating a victory of Field Marshall Joseph Radetzky, and another that includes a trio section called “Land of Hope and Glory.” This genre includes Elgar’s (\*) *Pomp and Circumstance*, as well as “Semper Fidelis,” “The Washington Post,” and “The Liberty Bell,” three of the many compositions in this genre written by John Philip Sousa. For ten points, name this musical genre often used by military bands to keep pace while walking.**

ANSWER: marches (accept military marches; accept graduation marches)

(19) **A character in this novel is repeatedly called “Bilgewater” by a man claiming to be “Looy the Seventeen” and is tricked when this novel’s title character hides Peter Wilks’s money in a coffin. In this novel, (\*) Pap’s body is discovered in a house floating in a river, allowing the title character to be “sivilized” by his friend’s Aunt Sally. For ten points, name this novel by Mark Twain in which the title boy rafts down the Mississippi with Jim, leaving behind friends like Tom Sawyer.**

ANSWER: The Adventures of Huckleberry Finn

(20) **This range includes the Ötztal subrange, where a five-thousand-year-old natural mummy was found in 1991. Mount Triglav is the tallest peak of this range’s Julian subrange, and is the largest mountain in (\*) Slovenia. This range includes the “mountain of mountains,” the Matterhorn; and the second-highest mountain in Europe, Mont Blanc. For ten points, name this European mountain range that stretches through Switzerland, France, and Italy.**

ANSWER: Alps (accept Alpine Mountains)