

2015-16 PLATO: Perfectly Likeable Academic Tournament Offering

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Round 6

1. The “Hollywood Ten” refused to answer questions about whether they supported this government system. The “Second World” during the Cold War included countries that were governed by this system, such as China under Mao Zedong. This system of governance stipulates that all members of a society have common ownership of goods. For 10 points, name this system of government that was developed by philosophers Karl Marx and Friedrich Engels.

ANSWER: **Communism** [accept **Communist** Party]

2. One river with this name originates in China and flows into the Gulf of Tonkin in Vietnam. A sea with this name can be accessed by traveling between Djibouti and Yemen. The border between Texas and Oklahoma is largely formed by another river with this name, as is the border between Minnesota and North Dakota. If translated into English, the capital of Louisiana is named for a stick of this color. For 10 points, name this color of the sea parted by Moses.

ANSWER: **Red** [accept **Red River** or **Red Sea**; accept Baton **Rouge** or **Red Stick**]

3. The current president of this country and her predecessor Lula da Silva are members of this country’s Workers’ Party. That president, Dilma Rousseff, was reelected in 2014 despite concerns about the high cost of hosting the 2014 World Cup and now faces impeachment charges. Environmentalists oppose construction of the Belo Monte Dam in the Amazon Basin in, for 10 points, this South American country home to oil company Petrobras.

ANSWER: **Brazil**

4. This quantity is calculated by taking the negative logarithm of the concentration of hydrogen ions. Due to the self-ionization of water, this quantity plus its hydroxide counterpart always equals fourteen. Litmus paper is used as one test for this quantity. Greater acidity corresponds to lower values of this quantity and neutral chemicals have a value of seven on this scale. For 10 points, name this scale used to measure the acidity or basicity of an aqueous solution.

ANSWER: **pH**

5. One novel by this author details an encounter between an escaped convict and the protagonist, who is later supposedly sent by Miss Havisham to become a gentleman. A street urchin created by this author is discovered to be the half-brother of Monks after joining with Fagin’s gang. For 10 points, name this author who, along with writing *Great Expectations* and *Oliver Twist*, created the character Ebenezer Scrooge in his *A Christmas Carol*.

ANSWER: Charles **Dickens**

6. This god cut Sati into 52 pieces with his disk-like weapon known as the Sudarshana Chakra, which he holds in one of his four arms. Depictions of this god usually give him light blue skin and a lotus flower. This Hindu god is married to Lakshmi, and his most famous incarnations, or avatars, include Krishna and Rama. For 10 points, name this protector and preserver god, one of the three main Hindu deities alongside Shiva and Brahma.

ANSWER: **Vishnu**

7. The brother of this woman is thought to have ordered the death of Pompey. This woman followed her famous conspirator in committing suicide after her side lost the Battle of Actium. This woman held her most famous position jointly with her son until her death. That son, Caesarion, was fathered by Julius Caesar. After Caesar's death this woman sided with Mark Antony against Octavian. For 10 points, name this female Pharaoh.

ANSWER: **Cleopatra** VII Philopator

8. In mammals, these cells don't have any organelles, including mitochondria, and so instead rely on lactic acid fermentation for energy. While developing in the bone marrow, they are called reticulocytes. These biconcave cells have A and B antigens on their surface, and many are stored in the spleen. They contain hemoglobin and become misshapen in people with sickle cell anemia. For 10 points, name these cells that carry oxygen throughout the body.

ANSWER: **red blood** cells [or **erythrocytes**; prompt on **blood** cell]

9. This story ends by describing a young couple as both "two foolish children" and the "wisest," due to the "uneventful chronicle" detailed earlier. One member of that couple in this short story frets over one dollar and eighty-seven cents before selling her most prized good to Madame Sofronie for twenty dollars. This short story details a gift exchange where a set of combs is bought for Della after she sold her hair. For 10 points, name this short story by O. Henry.

ANSWER: "The **Gift of the Magi**"

10. One method for finding these numbers is called the Sieve of Eratosthenes. Euclid added one to the product of some of these numbers to prove that there are infinitely many of them. Two numbers have this property relative to each other if they share no common divisors. The only even example of these numbers is two, and numbers without this property are composite. For 10 points, name these numbers whose only positive divisors are one and themselves.

ANSWER: **prime** numbers

11. One figure from this country's mythology shot all the stars out of the sky except the North Star and had a wife who rode a catfish. Another man from this country died after racing a steam-powered drill and was known as a "steel drivin' man." Babe the Blue Ox travelled with a giant lumberjack from this country named Paul Bunyan. For 10 points, name this country where Pecos Bill supposedly lived near Texas.

ANSWER: **United States** of America [accept **U.S.A.**; prompt on **America**]

12. This animal is the only mammal besides the dolphin that uses electroreception to locate its prey. The males of this species have venomous ankle spurs and when it was first encountered in 1798, Robert Knox believed it was fabricated by an Asian taxidermist. They are part of the monotreme order, meaning they are egg-laying mammals. For 10 points, name these duck-billed and beaver-tailed mammals unique to Australia.

ANSWER: **platypus**

13. This author wrote the odd-numbered chapters in his collaboration with David Levithan, a book which alternates perspectives between two teenagers named Will Grayson. In another of this author's novels, Miles Halter is obsessed with famous people's last words. The main characters visit Amsterdam in another of his novels in which Augustus and Hazel are cancer patients who fall in love. For 10 points, name this author of *Looking for Alaska* and *The Fault in Our Stars*.

ANSWER: John (Michael) **Green**

14. This two-minute speech followed a much longer one by Edward Everett. It claims that "we are engaged in a great civil war... (to test) whether that nation or any nation so conceived and so dedicated can long endure." This speech stated its speaker's goal that "government for the people, by the people, shall not perish from this earth." For 10 points, name this famous speech on a battlefield by Abraham Lincoln which begins "Four score and seven years ago."

ANSWER: **Gettysburg Address**

15. One motto of this group is "the only easy day was yesterday." In December 2015, it was announced that women who pass this group's Basic Underwater Demolition training will be allowed to join it for the first time. A special unit within this group was named "Team Six" in order to deceive enemies such as Osama bin Laden. For 10 points, name this U.S. special operation force that is trained to operate in sea, air, and land.

ANSWER: United States Navy **SEALs**

16. This element's isotope 36 is used in radiometric dating. CFCs contain carbon, fluorine, and this second-lightest halogen, which the Germans used as a chemical gas weapon in World War I. Its name is based on the ancient Greek word for green, referring to its yellow-green gas form at room temperature, and it bonds with sodium to form table salt. For 10 points, name this element with atomic number 17 that is often added to swimming pools.

ANSWER: **chlorine** [or **Cl**]

17. Some comics featuring this character say that his headquarters was part of the Underground Railroad. This character's first sidekick Dick Grayson became Nightwing. This comics character never carries a gun, which he attributes to the actions of Joe Chill. His friends include Jim Gordon and Alfred Pennyworth, and though he is not a superhero, he has defeated the Penguin, the Joker and Mr. Freeze. For 10 points, name this character whose real name is Bruce Wayne.

ANSWER: **Batman** [accept Bruce **Wayne** until mentioned]

18. The 23-F coup attempted to overthrow the constitutional monarchy in this country. During one war in this country, Emilio Mola coined the term “fifth column”. Ongoing disputes involve this European country’s occupancy of Ceuta and Melilla in Africa. This country’s civil war saw the bombing of Guernica and a victory for the Falange. For 10 points, name this European country in which Francisco Franco rose to power as a result of its civil war in the 1930s.

ANSWER: **Spain**

19. After killing John Lennon, Mark David Chapman read this novel while waiting for police. Chapman was reportedly inspired by this novel’s main character to call out “phonies” like Lennon. Chapman read a portion of this book at his sentencing, including the line where Holden Caulfield expresses his wish to be the title savior of children. For 10 points, name this novel by J.D. Salinger in which Holden explores New York City after being expelled from Pencey Prep.

ANSWER: *The **Catcher in the Rye***

20. One of these objects inspired the design of the Luxor Hotel in Las Vegas, and I.M. Pei designed glass ones located outside the Louvre in Paris. Another example of these structures built by Khufu is the only surviving member of the Seven Wonders of the World. Those examples are located in Giza [*GHEE-za*] near the Sphinx. For 10 points, name these triangular structures often built as tombs for Egyptian pharaohs.

ANSWER: **pyramids** [accept Great **Pyramids** of Giza]

TB. One of these instruments is accompanied by two pianos in the movement “The Swan”, from Saint-Saens’s “Carnival of the Animals.” This instrument joins two violins and a viola in a standard string quartet. Famous players of this instrument include Pablo Casals and Yo-Yo Ma. For 10 points, name this instrument that is larger than both the violin and viola but smaller than the double bass.

ANSWER: violon**cello**

Bonuses

1. This author made himself the protagonist of a work in which he travels through Hell, Purgatory, and Heaven to eventually meet God. For 10 points each:

[10] Name this Italian poet who wrote the *Divine Comedy*.

ANSWER: **Dante** Alighieri

[10] This first section of the *Divine Comedy* describes Dante's travels through the nine circles of hell. Beatrice sends the Roman poet Virgil to guide Dante in this work.

ANSWER: **Inferno**

[10] Phlegyas reluctantly ferries Dante and Virgil across this marshy river to the city of Dis. In Greek mythology, this river is the boundary between the Earth and the Underworld.

ANSWER: **Styx**

2. Euclid proved that there are only five of these three-dimensional shapes in his "Elements." For 10 points each:

[10] Name these polyhedra constructed such that each face is the same regular polygon and the same number of polygons meet at each corner.

ANSWER: **Platonic solids**

[10] This is the name of the four-sided Platonic solid. It is a triangular pyramid with equilateral triangle faces.

ANSWER: **tetrahedron**

[10] COMPUTATION: Find the surface area of a tetrahedron with edge length 2.

ANSWER: **$4\sqrt{3}$**

3. This man resigned as Woodrow Wilson's Secretary of State in protest because he was a pacifist. For 10 points each:

[10] Name this 3-time Democratic presidential nominee who advocated free silver in his "Cross of Gold" speech. He lost the 1896 election to William McKinley.

ANSWER: William Jennings **Bryan**

[10] Bryan was the prosecutor in this "trial of the century", where the defendant was accused of unlawfully teaching evolution.

ANSWER: **Scopes** "monkey" trial [accept *The State of Tennessee v. John Thomas Scopes*]

[10] John T. Scopes was defended by this man, who had earlier successfully defended thrill killers Leopold and Loeb.

ANSWER: Clarence **Darrow**

4. These objects exhibit gravitational effects so strong that not even light can escape them. For 10 points each:

[10] Name these astronomical objects that can form when massive stars collapse at the end of their life cycle.

ANSWER: **black hole**

[10] This is the name for the boundary from which light cannot escape a black hole. As a result, it shields the singularity at the center of the black hole from observation.

ANSWER: **event horizon**

[10] This British physicist predicted that black holes should emit his namesake radiation, due to quantum effects at the event horizon.

ANSWER: Stephen **Hawking**

5. Clans often roamed this country's "Highlands." For 10 points each:

[10] Name this northernmost region and constituent country of the United Kingdom. Its major cities include Glasgow and Edinburgh.

ANSWER: **Scotland**

[10] This Gaelic word means 'lake' in Scotland. Examples of them include Ness, whose waters supposedly contain a namesake monster, and Lomond, the name of a popular folk song.

ANSWER: **lochs** [*pronounced like "lock"; do not accept "lakes"*]

[10] Haggis, a traditional Scottish pudding, contains the heart, liver, lungs, and stomach of this animal. In New Zealand, these mammals famously outnumber people.

ANSWER: **sheep**

6. This novel by Norton Juster follows the adventures of the apathetic Milo, who finds a mysterious package that transports him to another world. For 10 points each:

[10] Name this novel, in which Milo travels through the title object and meets up with a dog named Tock and the Humbug to discover the beauty of the world and restore peace to the land.

ANSWER: *The* **Phantom Tollbooth**

[10] After escaping the Doldrums, Milo finds himself in this kingdom with two capitals, Dictionopolis and Digitopolis, ruled by kings who disagree about numbers and letters.

ANSWER: Kingdom of **Wisdom**

[10] Name the two princesses in the novel which Milo must help return, who helped settle all disputes throughout the land until being banished by the kings to the Castle in the Air.

ANSWER: Princess **Rhyme** and Princess **Reason** [accept in either order; must include both to be correct]

7. This speech is given annually in the U.S. House chamber and attended by many political dignitaries and other important figures. For 10 points each:

[10] Name this speech, during which the president provides Congress an update on national priorities and upcoming items on the president's legislative agenda.

ANSWER: **State of the Union** address

[10] President Obama's 2016 State of the Union was the first with this man as Speaker of the House sitting behind and to the right of Obama during the speech. He rarely clapped.

ANSWER: Paul **Ryan**

[10] The Republican response to the 2016 State of the Union was delivered by this Republican governor of South Carolina, the daughter of Indian immigrants.

ANSWER: Nimwata "Nikki" **Haley**

8. This North American war ended with the Treaty of Guadalupe Hidalgo. For 10 points each:

[10] Name this war that saw Winfield Scott take the port of Veracruz and others capture forts on the Baja California peninsula.

ANSWER: The **Mexican-American** War [or **Mexican** War or **U.S.-Mexican** War or the **Invasion of Mexico**]

[10] The Mexican-American War was caused in part by a dispute over American annexation of this former Mexican state north of the Rio Grande.

ANSWER: **Texas**

[10] This Democratic president during the Mexican-American War was a staunch supporter of Manifest Destiny.

ANSWER: James K. **Polk**

9. This natural process has been increased greatly due to human activity such as deforestation and accidental wildfires. For 10 points each:

[10] Name this process that transports soil and rock to a new location, usually after weathering.

ANSWER: **erosion** [accept word forms]

[10] These objects that eroded land were common during the Ice Age. The Great Lakes were formed as these receded north.

ANSWER: **glaciers**

[10] Glacial erosion also created these narrow inlets that are common in Scandinavia.

ANSWER: **fjords**

10. This man included a drawing of a helicopter, among other sketches, in his notebooks. For 10 points each:

[10] Name this Renaissance artist who also painted a famous depiction of Jesus' last supper.

ANSWER: Leonardo **da Vinci** [accept **Leonardo** di ser Piero da Vinci]

[10] This painting, da Vinci's most famous, is a portrait of the wife of Francesco del Giocondo. It is currently housed in the Louvre, and has a mysterious smile.

ANSWER: **Mona Lisa**

[10] This French artist painted the Mona Lisa with a mustache in *L.H.O.O.Q.* His sculpture *Fountain* is a urinal which he signed "R. Mutt".

ANSWER: Marcel **Duchamp**

11. In this religion, prayer occurs five times per day, always facing towards their holy city. For 10 points each:

[10] Name this Abrahamic faith and major world religion, whose holy book dates back to the seventh century.

ANSWER: **Islam**

[10] One of the five pillars of Islam is this requirement made of those who are able to visit the holy city of Islam at least once in their lifetime.

ANSWER: **hajj** [accept **pilgrimage** to **Mecca**]

[10] Major denominations within Islam include Sunni and Shi'ite. A third denomination is this mystic one, which aims to have believers transition into a state of fitra or "insight".

ANSWER: **Sufism**

12. After the death of her parents, Mary Lennox is sent to her uncle's home in this novel, where with a bit of snooping, she discovers a hide-away overgrown with vines. For 10 points each:

[10] Name this novel, first published in serial form in 1910 by Frances Hodgson Burnett.

ANSWER: *The **Secret Garden***

[10] This nursery rhyme is used by some characters in *The Secret Garden* to tease the protagonist about her stubborn and unfriendly nature.

ANSWER: **Mary, Mary, Quite Contrary**

[10] Mary and her parents had been living in India until it was struck by an epidemic of this intestinal disease that killed her parents and their family's servants.

ANSWER: **cholera**

13. This empire grew much of its foods on *chinampas*, or floating gardens. For 10 points each:

[10] Name this Mesoamerican empire that worshipped Quetzalcoatl and practiced human sacrifice.

ANSWER: **Aztec** empire

[10] The Aztec empire was conquered by this conquistador who had a native interpreter named La Malinche.

ANSWER: Hernan **Cortes**

[10] Cortes captured the Aztec capital Tenochtitlan, located on an island in this now-dry lake that is the current location of Mexico City.

ANSWER: Lake **Texcoco**

14. Folds called rugae allow this organ to expand as food enters it. For 10 points each:

[10] Name this digestive organ located below the esophagus.

ANSWER: **stomach**

[10] Partially digested food from the stomach moves through the pyloric sphincter into this first section of the small intestine.

ANSWER: **duodenum**

[10] The stomach's gastric juice is composed mainly of this strong acid with chemical formula HCl.

ANSWER: **hydrochloric** acid

15. For 10 points each, answer these questions about a certain location in the United States.

[10] The location is also the name of this country music duo whose hits include “Cruise” and “This Is How We Roll.”

ANSWER: **Florida Georgia Line**

[10] Straddling the Florida-Georgia line is this swamp, a national wildlife refuge with a name from the Creek Indian language.

ANSWER: **Okefenokee** Swamp [accept **Okefenokee** National Wildlife Refuge]

[10] The annual rivalry football game between the universities of Florida and Georgia is played in this city, a neutral site located 25 miles south of the Florida-Georgia line.

ANSWER: **Jacksonville**, Florida

16. There are some pretty strange shapes in geometry. For 10 points each:

[10] If you take a strip of paper, give it a half-twist, and glue the ends together, you get one of these strange one-sided objects named for a German mathematician.

ANSWER: **Mobius strip** [or **Mobius band**]

[10] This similarly strange object can be made by gluing two Mobius strips together along their edges. It cannot exist in three dimensions without intersecting itself.

ANSWER: **Klein bottle**

[10] This is the number of edges that a Mobius strip has.

ANSWER: **one**

17. This author’s first book, *Kenny’s Window*, was also illustrated by him. For 10 points each:

[10] Name this children’s book author and illustrator whose books *In the Night Kitchen* and *Outside Over There* are part of a trilogy with his most famous work.

ANSWER: Maurice **Sendak**

[10] That most famous work by Sendak is this book about Max’s trip through a jungle after being sent to bed without supper.

ANSWER: **Where the Wild Things Are**

[10] Sendak is also known for illustrating a children’s book series by Else Minarik about this title character, his mother and his animal friends.

ANSWER: **Little Bear**

18. This cheerful song, once the theme to *The Wonderful World of Disney*, includes lyrics such as “mister bluebird on my shoulder” and “wonderful feeling, wonderful day.” For 10 points each:
[10] Name this song from the controversial Disney film *Song of the South*.

ANSWER: “**Zip-A-Dee-Doo-Dah**”

[10] At three Disney theme parks, there are log flume rides with this name based on the film. After peacefully floating, riders of this ride are suddenly dropped 50 feet into a “briar patch”.

ANSWER: **Splash Mountain**

[10] One character in the film and the ride is this mischievous animal, famous in African-American folktales, who begs Br’er Fox not to throw him into the briar patch.

ANSWER: **Br’er Rabbit** [accept **Brother Rabbit**; prompt on **Rabbit**]

19. Events of this type took place at the mills in Lowell, Massachusetts in 1834 and in the anthracite coal mines of Pennsylvania in 1902. For 10 points each:

[10] Name this event that occurs when participants refuse to work in order to demand better wages or working conditions.

ANSWER: labor **strike**

[10] This unsuccessful 1894 strike saw members of the American Railway Union refuse to operate the trains in its namesake town. Eugene Debs was arrested in its aftermath.

ANSWER: **Pullman** Railroad Car Strike

[10] A strike in this city in 1909 was led by women in the garment-making industry. A fire at the Triangle Shirtwaist Factory in 1910 was the deadliest industrial fire in this city ever.

ANSWER: **New York** City [generously prompt on **Manhattan**]

20. This element is formed in stars by the nuclear fusion of hydrogen. For 10 points each:

[10] Identify this element, which is the lightest noble gas and second most abundant element in the universe.

ANSWER: **helium** [or **He**]

[10] One of the nuclear fusion reactions that creates helium is a chain reaction involving these positively charged particles that make up atoms.

ANSWER: **proton**

[10] Once stars consume most of the hydrogen at their cores, they begin to evolve into these large stars with relatively cool temperatures.

ANSWER: **red giants**

TB. This U.S. state is the only one whose entire eastern *and* western borders are formed by rivers. For 10 points each:

[10] Name this state, whose southern border with Missouri was the subject of the Honey War.

ANSWER: **Iowa**

[10] This city in Iowa was home to a popular “straw poll” during presidential elections which was held on the campus of Iowa State University.

ANSWER: **Ames**

[10] Iowa shares the “Quad Cities” metropolitan area with this other state; Davenport and Bettendorf are in Iowa while Moline and East Moline lie in this state.

ANSWER: **Illinois**