

## 2015-16 PLATO: Perfectly Likeable Academic Tournament Offering

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# Round 9

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1. One leader of this empire died when he slipped on the stairs after hearing a call for prayer. His son succeeded him as the leader of this empire and created a syncretic faith, Din-i-Ilahi. Another leader of this empire commissioned the Taj Mahal as a tomb for his wife Mumtaz. For 10 points, name this empire of the Indian subcontinent with emperors such as Babur and Akbar the Great.

ANSWER: **Mughal** Empire

2. This novel's original title was "First Impressions." The author did not originally have her name published on this work, referring to herself only as "a lady" or in later editions, as the author of *Sense and Sensibility*. The novel deals with issues of love and social mobility, a restriction which two of the novel's couples must come to terms with. For 10 points, name this Jane Austen novel that follows the romance of Elizabeth Bennett and William Darcy.

ANSWER: **Pride and Prejudice**

3. This figure was best known as a steel driver who helped to finish railroads in the Virginia area. Three different tunnels have claimed to be the site of a contest he took part of in, including the Big Bend Tunnel in West Virginia. The ballad of him and his mighty hammer has been retold in song and most recently in a Pixar short. For 10 points, name this American folk hero who is famous for beating a steam powered drill.

ANSWER: John **Henry**

4. Objects in this region of space are classified into C, S, and M-types based on their spectra. When objects in this area are swept into the orbits of other planets, they leave empty spaces called Kirkwood gaps. Some of the objects in this region include Vesta, Pallas, and the dwarf planet, Ceres, and most of it can be found between the orbits of Jupiter and Mars. For 10 points, identify this ring of rocky objects.

ANSWER: **asteroid belt**

5. At 1,407 feet below sea level, this body of water contains the lowest non-ocean point on Earth. The Jordan River is the main tributary of this deepest salt lake in the world. A hill mostly made of salt near this lake is called Mount Sodom. It is bordered by Israel and Jordan, and is sometimes known as "The Sea of Lot." For 10 points, name this Middle Eastern body of water where microorganisms cannot survive due to its salinity.

ANSWER: The **Dead Sea**

6. Four unnamed Light Warriors starred in the first installment of this video game series in 1987. A recent entry in this series has you fighting the Beastmen and protecting Eorzea from an incoming moon. These games are famous for their chocobos. This series has spin offs which include the Mana series and the Kingdom Hearts series. For 10 points, name the Japanese role-playing game series which is set to release its 15th installment in 2016.

ANSWER: **Final Fantasy**

7. One man with this last name was the U.S. president during the Billion-Dollar Congress. Another man with this last name led forces against Tecumseh at the Battle of Tippecanoe. That man ran for the presidency with the “log cabin and hard cider” campaign, but died of pneumonia a month after he took office. For 10 points, give this last name shared by presidents Benjamin and William Henry.

ANSWER: **Harrison** [accept William Henry **Harrison** or Benjamin **Harrison**]

8. This organ has a smooth region called the trigone, which is very sensitive to expansion. The detrusor muscle makes up this organ’s walls, and it only contracts when this organ is being emptied. Although it is not the stomach, this organ also has folds called rugae that allow it to expand. It is connected to the kidneys by the ureters and is emptied through the urethra. For 10 points, name this organ that collects urine.

ANSWER: urinary **bladder**

9. The protagonist of this novel gives his wife’s pearls to a concubine named Lotus Flower. This novel’s protagonist has a daughter who suffered from malnutrition and is now disabled whom they call “Poor Fool”. The sons of the protagonist decide to sell their family’s land, to their father’s disapproval. For 10 points, name this book about the Chinese farmer Wang Lung and his wife O-Lan, written by Pearl Buck.

ANSWER: *The **Good Earth***

10. These numbers are generated by summing consecutive triangular numbers or by summing the first n odd numbers. The difference of two of these numbers can be represented as  $a + b$  times  $a - b$ . These numbers cannot be negative and can be written as an integer with an exponent of 2. For 10 points, name these numbers that can be found by multiplying an integer by itself.

ANSWER: **square** numbers [or **perfect squares**]

11. The May 16 Notification was used to justify one activity in this country. One leader in this country tried to institute the Great Leap Forward. Lin Biao called for the destruction of the “Four Olds” during this country’s cultural revolution. Many of this country’s new policies were undone after the arrest of the Gang of Four. For 10 points, name this country which was led by Mao Zedong during the communist Cultural Revolution.

ANSWER: **China**

12. In this author's story *A Retrieved Reformation*, a boy is freed from a safe by Jimmy Valentine. A character created by this man throws rocks at a cat before being kidnapped and terrorizes his kidnappers Bill and Sam. Another character created by this author sells her beautiful hair to buy a chain for Jim, who ironically sells his watch to buy her a comb. For 10 points, name this American author of *The Ransom of Red Chief* and *The Gift of the Magi*.

ANSWER: O. **Henry** [or William Sydney **Porter**]

13. One painting from this movement shows a group of the artist's friends relaxing and eating under an orange and white striped canopy. That painting is Renoir's "Luncheon of the Boating Party." This art movement was named after a work featuring boats in Le Havre under a red sunrise, which was made by an artist famous for his paintings of water lilies. For 10 points, identify this 19<sup>th</sup> century art movement which included artists like Claude Monet.

ANSWER: **Impressionism** [accept **Impressionists**]

14. This technique relies on differences in partition coefficients between compounds and it was initially used to separate plant pigments. Generally, this technique involves dissolving a substance in a fluid mobile phase and allowing it to travel through a material called the stationary phase. Varieties types of this process are named "gas," "paper," and "thin-layer." For 10 points, name this type of laboratory technique used to separate mixtures.

ANSWER: **chromatography**

15. This country is currently engaged in military action against the PKK, an organization of Kurdish insurgents. This country led a late July 2015 attack on ISIL after one of its soldiers was killed near its Syrian border. In October 2015, over 100 people were killed in a bombing at a railway station in its capital city of Ankara. This country is led by president Recep Erdogan. For 10 points, name this country which contains Istanbul.

ANSWER: **Turkey**

16. Before one ceremony in this religion, its participants must bathe in sacred water in a room with a tray of rice. That ceremony is called Navjote. The main holy text of this religion contains a set of seventeen hymns called the Gathas. This religion's followers are known as Parsis, and its holy texts are the Avestas. For 10 points, name this dualistic Persian faith which focuses on the eternal conflict between Angra Mainyu and Ahura Mazda.

ANSWER: **Zoroastrianism**

17. During one independence movement in this country, Mangal Pandey attempted to commit suicide by pulling a gun trigger with his foot. During that rebellion in this country, it was revealed that Enfield cartridges were greased with beef fat, which led to the formation of the British Raj in this country. For 10 points, name this country in which soldiers called sepoys rebelled against a British company in cities such as Calcutta.

ANSWER: **India**

18. Adam Curry is credited with creating the first one of these in 2004, which he named “Daily Source Code.” Ben Hammersley of *The Guardian* is credited with creating this term which describes this form of web media broadcast through web syndication. Popular titles in this format include *This American Life*, *Freakonomics Radio*, and *Serial*. For 10 points, give this term, a portmanteau of the words iPod and broadcast.

ANSWER: **podcast**

19. This man’s play *Peer Gynt* had music written by his fellow Norwegian, Edvard Grieg. This man’s plays are frequently performed today, including one about contaminated baths, *An Enemy of the People*. This playwright also wrote a play about the neurotic wife of George, *Hedda Gabler*. For 10 points, name this Norwegian playwright who wrote *A Doll’s House*.

ANSWER: Henrik **Ibsen**

20. The Kreutz group of these objects are called sungrazers. Short-period examples of these come from the Kuiper [*kye-per*] belt, while long-period ones are thought to originate in the Oort cloud. Due to the effects of solar radiation, these objects form a dusty atmosphere called a coma. Famous examples are Hale-Bopp and one named after Edmond Halley. For 10 points, name these small, icy bodies that often have tails.

ANSWER: **comets**

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TB. It’s not in Arizona, but this national park has its own “Grand Canyon” on a river with namesake waterfalls. Megafauna such as bison and elk can be found in this park that is three times larger than the state of Rhode Island. This park lies in Idaho, Montana, and Wyoming, and is noted for its geothermal features and the super volcano reportedly that lies underneath it. For 10 points, name this National Park, founded in 1872, that contains “Old Faithful.”

ANSWER: **Yellowstone** National Park

## BONUSES

1. Popular protest slogans during this time period often started with “*Ash-shab yurid*,” meaning “the people want.” For 10 points each:

[10] Name this series of political movements in North Africa and the Middle East that began in December 2010.

ANSWER: **Arab Spring**

[10] Arab Spring began in this African nation that deposed President Zine al-Abidine Ben Ali in a bloodless coup.

ANSWER: **Tunisia**

[10] The day before the start of the revolutions in Tunisia, Mohammed Bouazizi participated in this form of protest. Several Buddhist monks in Vietnam popularized this practice.

ANSWER: **self-immolation** [accept answers that describe **setting oneself on fire**]

2. This phenomenon is nicknamed the “northern lights” or “southern lights,” depending on where it is seen. For 10 points each:

[10] Name this light display that occurs as a result of disturbances in Earth’s magnetosphere.

ANSWER: **aurora** [accept **aurora borealis** or **aurora australis**]

[10] The disturbances are usually caused by these streams of charged particles released from the Sun’s atmosphere.

ANSWER: **solar winds**

[10] Solar winds are this fourth state of matter which consists of ionized gas.

ANSWER: **plasma**

3. COMPUTATION: For 10 points each, perform some calculations using the metric system.

[10] 65,000 meters is the equivalent of how many kilometers?

ANSWER: **65** kilometers

[10] A decaliter represents this fraction of a liter.

ANSWER: **1/10** [accept **tenth**, **.1** or **1 percent**]

[10] How many milligrams would you find in a kilogram?

ANSWER: **1,000,000**

4. Some American states are known by state nicknames. For 10 points each, answer these questions about some of those nicknames.

[10] This east-coast state began producing peaches as early as the 1500s, earning it its nickname of “The Peach State.”

ANSWER: **Georgia**

[10] This state’s motto “Eureka!” is a reference to the gold found here. That discovery also gave this state its nickname of “The Golden State.”

ANSWER: **California**

[10] The Buffalo National River and the Boston Mountains helped give this state its nickname of “The Natural State.”

ANSWER: **Arkansas**

5. People who documented the conditions of industrial America were sometimes known as “muckrakers.” For 10 points each:

[10] This man wrote about the immigrant Jurgis Rudkus in *The Jungle*, a book that sparked outrage and led to the passage of the Pure Food and Drug Act.

ANSWER: Upton **Sinclair**

[10] Jacob Riis [*reese*] documented the poor living conditions in the tenements and slums of this American city in his book *How the Other Half Lives*.

ANSWER: **New York** City [accept **NYC**]

[10] Louis Brandeis wrote a book about curbing the power of big banks before his appointment to the Supreme Court in 1916 by this president who also founded the League of Nations.

ANSWER: Woodrow **Wilson**

6. This fantasy series follows the adventures of a flat world held up by four elephants that stand on the back of a giant turtle. For 10 points each:

[10] Name this fantasy series, whose expansive mythos includes fairies, vampires, witches, and rock and roll. One of its main characters is the wizard Rincewind.

ANSWER: **Discworld** Series

[10] Discworld was written by this man. He frequently collaborated with Neil Gaiman and passed away in 2015 due to Alzheimer’s Disease.

ANSWER: Terry **Pratchett**

[10] This frequent character in the series is seven feet tall and rides a horse named Binky. He once took over for the Hogfather, a version of Santa Claus.

ANSWER: **Death**

7. Greek mythology explained the changing of seasons with the story of a goddess being kidnapped to the Underworld. In grief, her mother made the world barren and cold. For 10 points each:

[10] Name this Greek goddess of springtime and vegetation, the daughter of Demeter.

ANSWER: **Persephone**

[10] This man was the husband of Persephone who kidnaps her from the world. He is god of the Underworld and Zeus’s brother.

ANSWER: **Hades** [do not accept “Pluto”]

[10] Hades feeds this fruit to Persephone, who eats several of its seeds that represent the months she must spend with him in the Underworld.

ANSWER: **pomegranate**

8. This virus infects cells such as helper T cells and macrophages. For 10 points each:

[10] Name this virus that prevents the immune system from working effectively and which may eventually develop into AIDS.

ANSWER: **HIV** [accept **Human Immunodeficiency Virus**]

[10] About a quarter of the population in this African country, with capital at Gaborone, is infected with HIV.

ANSWER: **Botswana**

[10] HIV is a member of this family of viruses that uses RNA as its genetic material instead of DNA. This family is named for its ability to work “backward” and create new viral DNA.

ANSWER: **retroviruses** [accept **Retroviridae**]

9. In this story, Aeolus gives the protagonist a bag of winds to help him sail home, but the other men on the ship accidentally let all of the winds escape. For 10 points each:

[10] Name this ancient Greek epic poem that focuses on the namesake hero from Ithaca and his family.

ANSWER: *The **Odyssey***

[10] This sorceress transformed all of Odysseus’s men into pigs. Odysseus succeeded in resisting her magic because Hermes gave him a magical herb called *moly*.

ANSWER: **Circe**

[10] This wife of Odysseus used various tricks, such as pretending to weave a burial shroud, to fend off suitors as she waited for her husband to return.

ANSWER: **Penelope**

10. For 10 points each, answer the following questions about the hit AMC series *The Walking Dead*.

[10] Much of the first season of *The Walking Dead* is centered around this Southern capital city.

ANSWER: **Atlanta**, Georgia

[10] The first season of the show was nominated for one of these awards given out by the Hollywood Foreign Press Association.

ANSWER: **Golden Globe** Award for Best Television Series - Drama

[10] After spending the first five seasons in the state of Georgia, the main characters travel north and end up in this suburb of Washington D.C.

ANSWER: **Alexandria**, Virginia

11. For 10 points each, answer the following questions about a candidate in the 2016 Republican primaries.

[10] This candidate is famous for being the author of *The Art of the Deal* and star of NBC’s *The Apprentice*.

ANSWER: Donald **Trump**

[10] In a rally supporting Trump, this Tea Party politician called her supporters “proud clingers,” a phrase which briefly went viral after her speech.

ANSWER: Sarah **Palin**

[10] This Fox News reporter found herself at odds with Trump during and after the first debate. Trump attributed his refusal to debate before the Iowa primary to her presence.

ANSWER: Megyn **Kelly**

12. Many think this piece is about complete silence, but it is actually meant to consist of the sounds of the environment. For 10 points each:

[10] Name this piece which instructs the performers not to play their instruments for the title length of time.

ANSWER: **4' 33"** [pronounced "four-thirty-three" or "four minutes (and) thirty three seconds"]

[10] **4' 33"** was composed by this American experimentalist. He also invented the prepared piano and composed five pieces titled *Imaginary Landscape*.

ANSWER: John **Cage**

[10] Cage also composed a piece for this keyboard instrument called *As Slow as Possible*, a current performance of which is scheduled to end in 2640. Bach's *Toccatina and Fugue in D Minor* is also written for this instrument.

ANSWER: pipe **organ**

13. The setting of this story is just outside Independence, Kansas between the years of 1869-1870. For 10 points each:

[10] Name this novel about the title building in Kansas, which is the third book in its series. This book inspired a popular television series with the same name during the 1970s and 1980s.

ANSWER: **Little House on the Prairie**

[10] This first book in the series describes the author's life in a Wisconsin forest prior to moving to the prairie.

ANSWER: **Little House in the Big Woods**

[10] Both books were written by this author, the second daughter in a settler family that frequently moved around the Midwest.

ANSWER: Laura Ingalls **Wilder**

14. Following the failure of the Shimabara Rebellion during this period, Christians were forced underground. For 10 points each:

[10] Name this last shogunate [*show-gun-ate*] of Japan. Commodore Matthew Perry entered Japan while this shogunate was in power.

ANSWER: **Tokugawa** shogunate

[10] The Tokugawa shogunate was founded by man, who led it during the Siege of Osaka against the Toyotomi clan. He also led troops during the Battle of Sekigahara.

ANSWER: Tokugawa **Ieyasu**

[10] During the Tokugawa shogunate, this class of noble warriors ranked just under the daimyo in social and political power.

ANSWER: **samurai**



15. Simple machines are theoretical devices that allow work to be completed with less effort.  
For 10 points each:

[10] This type of simple machine allows one to exert their input force over an extended displacement. Typically, it appears as a flat, sloped surface.

ANSWER: **inclined plane** [accept **incline**; prompt on plane]

[10] This is the name for the fixed point around which a lever pivots or rotates.

ANSWER: **fulcrum**

[10] The mechanical advantage of this simple machine can be calculated by counting the number of sections of rope holding the load.

ANSWER: **pulley**

16. For 10 points each, identify these world-famous waterfalls.

[10] These waterfalls on the Zambezi river are often found on the lists of “Seven Natural Wonders of the World.”

ANSWER: **Victoria Falls** [accept **Mosi-oa-Tunya**]

[10] This series of waterfalls borders Canada and America and is famous for its “Cave of the Winds” tour and the *Maid of the Mist*.

ANSWER: **Niagara Falls**

[10] This waterfall is the highest uninterrupted waterfall in the world. It is located in Venezuela.

ANSWER: **Angel Falls**

17. One of these kinds of events was led by Joseph Cinque. For 10 points each:

[10] Name this type of event that occurred aboard the ship *La Amistad*. Denmark Vesey also led a notable one of these events.

ANSWER: **slave revolt** [accept any answers that describe uprisings, revolts, rebellions, etc., by slaves; prompt on answers that do not mention slaves]

[10] This man and his followers killed five slave supporters during the Pottawatomie Massacre. He later led slaves in a raid on Harper’s Ferry.

ANSWER: John **Brown**

[10] This slave who frequently had visions led a rebellion in Southampton County, Virginia after witnessing a solar eclipse in 1831.

ANSWER: Nat **Turner**

18. Chemical reactions happen at different speeds. For 10 points each, answer these questions about changing the speed of a chemical reaction.

[10] This is the term for a substance that increases the rate of a chemical reaction temporarily by lowering the activation energy required.

ANSWER: **catalysts**

[10] This is the term for a biological catalyst; that is, one created by a living organism.

ANSWER: **enzymes**

[10] This substance decreases the rate of a chemical reaction temporarily by increasing the activation energy required.

ANSWER: **inhibitors**

19. Three landmarks of this shape can be found at Giza. For 10 points each:

[10] Identify this polyhedron which has a polygonal base and triangular faces that converge to a single point called an apex.

ANSWER: **pyramid** [accept square **pyramid**]

[10] Like cones, one can find the volume of a pyramid by multiplying height, area of the base, and this fraction.

ANSWER:  **$\frac{1}{3}$**

[10] COMPUTATION: Find the volume of a square pyramid, whose base has side length of 4 and whose height is 6.

ANSWER: **32** cubic units

20. For 10 points each, answer the following about an early American author from New England and his works.

[10] Name this author, most famous for his novel *The Scarlet Letter*.

ANSWER: Nathaniel **Hawthorne**

[10] This character from *The Scarlet Letter* was required to wear the letter A on her clothing as punishment for her indiscretions.

ANSWER: **Hester Prynne** [accept either underlined name]

[10] This other Hawthorne novel tells the story of the Pyncheon family and their home, as they try to break the curse of Matthew Maule.

ANSWER: *The **House of the Seven Gables***

TB. This 1974 horror film is often noted as the first slasher film, a subgenre known for its gore. For 10 points each:

[10] This film follows a group of friends that encounter the infamous murderer Leatherface, best known for the weapon he uses to kill Franklin.

ANSWER: *The **Texas Chainsaw Massacre***

[10] This 1978 slasher film introduced the knife-wielding killer Michael Myers and is named after the holiday on which the murders occur.

ANSWER: **Halloween**

[10] This actress became known as a “scream queen” for playing Laurie Strode in *Halloween*.

ANSWER: Jamie Lee **Curtis**