

2015-16 PLATO: Perfectly Likeable Academic Tournament Offering

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Round 1

1. One hypothesis regarding the formation of this object involves a large object called Theia colliding with Earth. The darker basaltic plains on this body are called maria and given names such as the Sea of Tranquility. This celestial body's gravitational interaction is responsible for Earth's tides, and a solar eclipse occurs when this object passes between the Sun and the Earth. For 10 points, name this celestial body, the only natural satellite of Earth.

ANSWER: the moon

2. In 1887, engineers reversed the flow of this city's namesake river. This city's South Side includes the neighborhood of Englewood, infamous for high crime rates. Along Michigan Avenue in this city, one can find Millennium Park and its shiny sculpture known as "the Bean." The "L" trains in this city run to its two major airports, O'Hare and Midway. For 10 points, name this Midwestern city on the shores of Lake Michigan.

ANSWER: Chicago, Illinois

3. One ruler of this country was executed after the Thermidorian Reaction against the Jacobin Club. That leader was the President of the Committee of Public Safety, Maximilien Robespierre. During World War II, this country was led by a puppet state of Nazi Germany until 1944 when Charles de Gaulle took power. Another ruler of this country sold Thomas Jefferson the Louisiana Territory. For 10 points, name this country once ruled by Napoleon Bonaparte.

ANSWER: France

4. In Ancient China, Liu Hui calculated this number using a 96-sided polygon. A circle contains twice this many radians, and this value is the period of the tangent function. This transcendental number can be quickly estimated as twenty-two over seven. A circle's circumference is equal to this number times its diameter, and its area is this number times radius squared. For 10 points, give this number that has a value of about 3.14.

ANSWER: pi

5. In one story popularized by these authors, a princess meets a frog after losing her favorite golden ball. That frog transforms into a prince after being thrown against the wall. Another story recorded by these authors sees two children abandoned in the forest by their father and captured by a cannibalistic witch, whom the children kill by shutting her in an oven. For 10 points, name this German duo who compiled folk tales like the Frog Prince and Hansel and Gretel.

ANSWER: The Brothers Grimm [prompt on Grimm; accept Grimm Brothers or Jacob and Wilhem Grimm]

6. One leader of a branch of this religion is said to be the reincarnation of the Bodhisattva of Compassion. That leader of a Tibetan branch of this religion is the Dalai Lama. One branch of this religion developed a Zen type popular in parts of Asia. The founder of this religion preached the Four Noble Truths and the Middle Way. For 10 points, name this religion that includes the Theravada and Mahayana schools, a religion founded by Siddhartha Gautama.

ANSWER: **Buddhism**

7. In this short story, the protagonist and her husband are invited by his boss, the Minister of Education, to a party, but she has nothing to wear. This causes her to buy a new dress and borrow the title object, which she loses. After working for ten years to buy a replacement, the main character of this story discovers that the title piece of jewelry was an imitation. For 10 points, name this short story, a work by Guy de Maupassant.

ANSWER: “The **Necklace**”

8. According to Bronsted and Lowry, these substances can be classified as monoprotic or polyprotic. The Lewis definition states these substances are electron-pair acceptors, while the Arrhenius definition says they directly increase the concentration of H⁺ in solution. Aqua regia is a combination of nitric and hydrochloric types of these substances. For 10 points, name these substances with pH of less than 7, such as vinegar and lemon juice.

ANSWER: **acids**

9. This 16th century movement was inspired by Johann Tetzel and his sale of indulgences. This movement is typically considered to have started when the 95 Theses against the Sale of Indulgences were pinned to a church door in Wittenburg. Charles V, a Catholic, called the Diet of Worms to address this movement by speaking to Martin Luther. For 10 points, name this movement that first attempted to change Catholicism before breaking off from it.

ANSWER: **Protestant Reformation** [accept descriptions that mention **Protestant** religions breaking off from the **Catholic** church; accept **Protestant** after “Catholic”]

10. In Sikhism, cutting *this* is prohibited by the practice of Kesh. According to a theorem in astronomy, black holes have no *this*, and trichotillomania is a compulsion to pull out *this*. It is a distinguishing feature of mammals and is composed of a follicle and a shaft. A musical named *this* features the song “Age of Aquarius.” Some styles of this include mullets and dreadlocks. For 10 points, name this protein filament that may be cut at a barbershop or salon.

ANSWER: **hair**

11. A Gustave Courbet painting depicting and named for one of these events at Ornans shows Christ crucified in the background. Another work showing one of these events depicts Jesus, Mary, and John the Baptist looking down at the mourners in black as Saints Augustine and Stephen carry the title figure. For ten points, name this event, which is occurring for Count Orgaz in an El Greco painting.

ANSWER: **burial** [prompt on **death** or **funeral**]

12. This author was inspired by Alice in Wonderland to write the first book of her Underland Chronicles, *Gregor the Overlander*. The first book in this author's most popular series sees a girl nicknamed Foxface die after stealing and eating poisonous berries from the deuteragonist. The last book of that series by this author sees Katniss kill District 13's President Coin after rebels take the Capitol. For 10 points, name this author of the Hunger Games trilogy.

ANSWER: Suzanne Collins

13. John Foster Dulles held this position under President Eisenhower. The holder of this position is usually fourth in line for the presidency, although some holders of this position such as Henry Kissinger and Madeleine Albright were ineligible to succeed to the presidency. This Cabinet-level position serves as the primary diplomat of the US and coordinates foreign relations. For 10 points, name this Cabinet-level position currently held by John Kerry.

ANSWER: United States Secretary of State

14. In horseshoe crabs, this element makes the crabs' blood look blue. When exposed to air, this element will form a green patina called verdigris and because of its high conductivity, it is often used in electrical wires. On the periodic table, this element is located above silver and gold. When alloyed with zinc, it forms brass and when alloyed with tin, it forms bronze. For 10 points, name this element, which now only makes up 2.5% of a penny.

ANSWER: copper [or Cu]

15. One story in this book describes how languages came into being after people attempted to make a tower whose top was in the heavens. This book tells the story of the first murder, in which Abel dies at the hands of his jealous brother Cain. After Abel's death in this book, Eve bears another son named Seth. For 10 points, name this book of the Bible that tells of the creation and of the great flood, the first book of the Old Testament.

ANSWER: The Book of Genesis [prompt on the Bible]

16. In 2015, some attendees to this organization's 65th Congress were arrested at the Hotel Baur au Lac. The 2014 Garcia Report detailed an investigation into suspected bribery related to this organization's bidding process for host sites. Former CONCACAF officials Jack Warner and Chuck Blazer are under investigation for their roles in corruption in this organization. For 10 points, name this international organization that sponsors soccer's World Cup.

ANSWER: FIFA ["fee-fa"; accept Fédération Internationale de Football Association or International Federation of Association Football]

17. The line "Flood-tide below me! I see you face to face!" opens this poetry collection's "Crossing Brooklyn Ferry." Another poem in this collection describes a "western fallen star," while another features a title character who has "fallen cold and dead." For 10 points, name this poetry collection that includes two poems about Abraham Lincoln, "When Lilacs Last in the Dooryard Bloom'd" and "O Captain! My Captain!," a work by Walt Whitman.

ANSWER: Leaves of Grass [accept "Crossing Brooklyn Ferry" or Walt Whitman before "collection's"]

18. The anterior lobe of this organ secretes the protein prolactin which controls lactation. The posterior lobe of this organ is made of axons that store and release hormones such as vasopressin and oxytocin. This gland is controlled by signals from the neighboring hypothalamus and releases growth hormone. For 10 points, name this gland situated at the base of the brain that is the “master gland” of the endocrine system.

ANSWER: **pituitary gland**

19. Stu Ungar is widely regarded as the best player ever of one variety of this game. It’s not baseball, but this game’s “World Series” airs on ESPN. The music video for Katy Perry’s “Waking up in Vegas” features Perry defeating Daniel Negreanu at this card game after rivering a fourth ace. One Lady Gaga song is titled for a “Face” you might use while playing this game. For 10 points, name this family of gambling card games often played at casinos.

ANSWER: **poker** [accept **rummy** until “Lon”; accept Texas **Hold’em**, do not accept other varieties of poker]

20. One notable volcano located on this continent is Mount Erebus. Vinson Massif is the highest mountain on this continent. Argentina claims part of this continent as part of its Tierra del Fuego Province; however, an international treaty suspends all claims to parts of this continent in order to advance scientific activity such as studying emperor penguins and ice cores. For 10 points name this icy continent, the location of the South Pole.

ANSWER: **Antarctica**

TB. Important advances made during this war include the invention of the gatling gun. Guerillas in this war were prominent in rural areas and included Bloody Bill and William Quantrill. Fighting in this war broke out in Charleston Harbor at the Battle of Fort Sumter. This war ended at Appomattox Court House where Robert E. Lee surrendered to Ulysses S. Grant. For 10 points, name this war fought between the northern United States and the southern Confederate States.

ANSWER: American **Civil** War [accept **War Between the States**]

BONUSES

1. One kind of this force in fluids is called drag. For 10 points each:

[10] Identify this force that comes in static, kinetic, and rolling types. This force makes it difficult to push an object across a carpeted floor.

ANSWER: **friction**

[10] Friction can be calculated by multiplying the normal force with the coefficient of friction. The normal force is oriented *this* direction to the surface.

ANSWER: **perpendicular** [accept **90 degree angle**]

[10] When a falling object's drag force is equal to gravity, it is said to be falling at this rate at which there is no acceleration.

ANSWER: **terminal velocity**

2. This European country stretches from the Alps to the North and Baltic Seas. For 10 points each:

[10] Name this country whose major cities include Hamburg and Munich.

ANSWER: The Federal Republic of **Germany** [or Bundesrepublik **Deutschland**]

[10] This second-longest river of Europe begins in the Black Forest of Germany.

ANSWER: the **Danube** River

[10] This northern neighbor of Germany lies on the Jutland peninsula. It also controls Greenland.

ANSWER: Kingdom of **Denmark**

3. This American children's novel sees the piglet Wilbur's life spared after Fern convinces her father not to kill him. For 10 points each:

[10] Name this novel whose title spider leaves messages, such as the phrase "Some Pig," to save a more mature Wilbur from slaughter.

ANSWER: ***Charlotte's Web***

[10] Charlotte managed to save Wilbur by having her messages mistaken for one of these unexplainable events.

ANSWER: a **miracle** [accept similar answers such as **divine intervention**]

[10] Wilbur's life is spared after he is shown at this event by Homer Zuckerman. At this event, Charlotte dies after laying her eggs.

ANSWER: county **fair**

4. You'll express gratitude for this bonus once you complete it. For 10 points each:

[10] Which latitude lies exactly halfway between the Tropic of Cancer and the Tropic of Capricorn?

ANSWER: the **Equator** [accept **zero** degrees]

[10] In the ballet position known as attitude, the dancer might be standing on the tips of his toes, known by this two word French phrase.

ANSWER: **en pointe** [pronounced "on point"]

[10] One of Jesus' Beatitudes recounted in the Gospel of Matthew suggests that these people will "inherit the Earth."

ANSWER: the **meek**

5. In May 2015, investigative journalist Seymour Hersh claimed that the U.S. account of Operation Neptune Spear was a lie. For ten points each:

[10] Name this May 2011 event, the goal of Operation Neptune Spear, in which members of the U.S. Special Forces found and killed the leader of al-Qaeda.

ANSWER: **assassination of Osama bin Laden** [accept clear knowledge equivalents]

[10] Osama bin Laden first appeared on the FBI's Most Wanted Terrorists list after his involvement in an 1998 embassy bombing in this country with capital at Nairobi.

ANSWER: **Kenya**

[10] In the 1980s, bin Laden funded a group of Muslim guerilla fighters called mujahideen in Afghanistan who were fighting against this country's takeover of the Afghan government.

ANSWER: the **Soviet Union** [accept **Union of Soviet Socialist Republics**; do not accept or prompt on Russia]

6. Diamond and graphite are both allotropes of this element. For 10 points each:

[10] Identify this nonmetal element with symbol C and atomic number 6.

ANSWER: **carbon**

[10] Because carbon can form up to four covalent bonds, it makes the backbone of many important biological compounds. This is the name of the study of carbon-containing compounds.

ANSWER: **organic** chemistry

[10] The simplest carbon-based molecules, such as ethane and octane, consist of carbon and this other element.

ANSWER: **hydrogen**

7. 2015 was a notable year for the LGBT community for many reasons. For 10 points each:

[10] In April, a former Olympic decathlete and reality show star announced she was transgender and was changing her first name from Bruce to this other first name.

ANSWER: **Caitlyn** Jenner

[10] In June, same-sex marriage became legal in all 50 states after this landmark Supreme Court decision.

ANSWER: **Obergefell v. Hodges**

[10] Before marriage equality was a reality in the U.S., this European country legalized same-sex marriage by popular vote in May 2015, the first country to ever do so.

ANSWER: **Ireland**

8. In this novel, the title family visits Grandma Sands. For 10 points each:

[10] Name this novel that sees Kenny and his siblings exposed to racism at its worst when their grandmother's church is bombed in the title city.

ANSWER: **The Watsons Go to Birmingham - 1963**

[10] This man wrote *The Watsons Go to Birmingham - 1963*.

ANSWER: Christopher Paul **Curtis**

[10] The Watsons travel to Birmingham from this state. In another work by Curtis, the orphan Bud leaves a foster family in this state's city of Flint to meet his grandfather in Grand Rapids.

ANSWER: **Michigan**

9. In this musical work, a little bird chastises a duck by asking, “What kind of bird are you if you can’t fly?” to which the duck replies, “What kind of bird are you if you can’t swim?” For 10 points each:

[10] Name this children’s story, in which the title predator swallows the duck whole, before being captured by the title boy with a lasso.

ANSWER: **Peter and the Wolf**

[10] *Peter and the Wolf* was written by this Russian composer. He also composed *The Love for Three Oranges*.

ANSWER: Sergei **Prokofiev**

[10] In *Peter and the Wolf*, the wolf is represented by this brass instrument, often played with one hand gripping the bell.

ANSWER: French **horn**

10. This novel details the life of a certain family in Maycomb County, Alabama. For 10 points each:

[10] Name this novel narrated by Scout Finch, a work of Harper Lee.

ANSWER: **To Kill a Mockingbird**

[10] This character in *To Kill a Mockingbird* leaves Scout and her brother Jem small gifts in a tree and saves the Finch children from an attack by Bob Ewell.

ANSWER: **Arthur “Boo” Radley** [accept any single underlined word or combination]

[10] This other character is defended from bogus rape charges by Scout’s father Atticus, but is still convicted because he is black. This character is killed attempting to flee prison.

ANSWER: **Tom** Robinson [prompt on **Robinson**]

11. COMPUTATION: Joe has a sock drawer with 2 red socks, 4 blue socks and 6 white socks. Compute some probabilities in this situation, for 10 points each:

[10] What is the probability that Joe pulls a blue sock?

ANSWER: **1 out of 3** [accept **1/3** or **1 in 3**]

[10] What is the probability that the sock that he pulls is *not* white?

ANSWER: **1 out of 2** [accept **1/2** or **1 in 2**]

[10] If Joe pulls out two socks without replacing them, what is the probability that they are *both* red?

ANSWER: **1 out of 66** [accept **1/66** or **1 in 66**]

12. Two descendants of this person have become First Ladies of the United States. For 10 points each:

[10] Name this woman who became known as Rebecca Rolfe after marrying John Rolfe. She is also sometimes linked with John Smith.

ANSWER: **Pocahontas**

[10] Pocahontas was a member of this Native American tribe, named after her father who was Chief at the time of her capture.

ANSWER: **Powhatan**

[10] One of the First Ladies descended from Pocahontas is this wife of Ronald Reagan who launched the “Just Say No” drug campaign.

ANSWER: **Nancy** Reagan

13. Earth's atmosphere makes life possible, but things can get pretty crazy. For 10 points each:
[10] This is the layer of the atmosphere in which weather takes place. In this layer closest to Earth, temperature decreases with altitude.

ANSWER: **troposphere**

[10] The tops of these clouds can sometimes reach near the top of the troposphere due to their extremely intense convection, which can create an anvil shape.

ANSWER: **cumulonimbus clouds**

[10] The ozone layer, which helps shield Earth from UV radiation, is located in this layer of the atmosphere.

ANSWER: **stratosphere**

14. The legislative branch of government has some exceptions to otherwise common practices. For 10 points each:

[10] This is the one state which does not have a bicameral legislature; that is, this state's legislature is only made up of one house which is based in its capital of Lincoln.

ANSWER: **Nebraska**

[10] Two states are currently represented in Congress by independent senators. Angus King from Maine is one, and the other is Bernie Sanders, who represents this state as a US senator.

ANSWER: **Vermont**

[10] This amendment to the constitution provided for electoral representation for residents of Washington, D.C., since they have no voting members of Congress.

ANSWER: **23rd amendment**

15. This country's city of Lagos was replaced as capital by Abuja in 1991. For 10 points each:

[10] Name this country in West Africa, the most populous country on the continent.

ANSWER: **Nigeria**

[10] The northeast border of Nigeria lies on this lake, also the name of a large African country lying across the lake from Nigeria.

ANSWER: Lake **Chad**

[10] Nigeria achieved independence in 1960 from this country. Other colonies of this country included the Falkland Islands and India.

ANSWER: **United Kingdom of Great Britain and Northern Ireland** [accept **Great Britain** or **England**]

16. This man was part of the First Triumvirate with Pompey the Great and Marcus Licinius Crassus. For 10 points each:

[10] Name this man who declared himself "dictator in perpetuity" of the Roman Republic and who was killed on the Ides of March.

ANSWER: **Julius Caesar** [prompt on **Caesar**]

[10] Caesar was killed as a result of a conspiracy amongst Roman senators led by this man along with Cassius. In Latin, Caesar is quoted as saying "Et tu?" to this man.

ANSWER: Marcus Junius **Brutus** [accept **Brute**]

[10] This adopted son of Julius Caesar founded the Roman Empire. This man's forces defeated Marc Antony and Cleopatra in Egypt.

ANSWER: Caesar **Augustus** [accept Gaius **Octavius** or Gaius Julius Caesar **Octavianus**]

17. This website's first video shows its co-founder Jawed Karim at the the zoo. For 10 points each: [10] Name this popular video sharing website that is now owned by Google.

ANSWER: **YouTube**

[10] This most subscribed channel on YouTube is owned by Swedish gamer Felix Kjellberg.

ANSWER: **PewDiePie**

[10] One viral YouTube video features a child by this name biting his brother's finger. Another video is about an antisocial unicorn with this name.

ANSWER: **Charlie**

18. These structures often produce nectar to attract pollinators, such as hummingbirds and bees. For 10 points each:

[10] Name this reproductive part of a plant that has petals.

ANSWER: **flowers**

[10] This is the "male" organ of the flower. It consists of a pollen-producing anther on top of a filament.

ANSWER: **stamen**

[10] These seed-bearing plants are distinguished from gymnosperms by the fact that they produce flowers.

ANSWER: **angiosperms**

19. In West African folklore, one of these creatures got his thin legs after trying to trick all of his friends into giving him dinner without making him do chores. For 10 points each:

[10] Name this animal which Arachne was transformed into after challenging Athena to a weaving contest.

ANSWER: **spider**

[10] This is the name of the previously mentioned trickster spider from West African tradition. He was defeated by a tar-baby after attacking it and getting his legs stuck.

ANSWER: **Anansi**

[10] Anansi was given knowledge of all of these things, after capturing a python, a leopard, and hornets for the Sky God.

ANSWER: **stories**

20. Quadrilaterals can be classified by the lengths of their sides. For 10 points each:

[10] This quadrilateral is made up of two pairs of adjacent sides that are equal in length.

ANSWER: **kite**

[10] This other quadrilateral has sides that are all equal length. When all the angles are equal, this shape becomes a square.

ANSWER: **rhombus**

[10] In any rectangle, these lines drawn from one vertex to the opposite vertex are of equal length.

ANSWER: **diagonals**

TB. In this novel, Jonas is assigned the position of Receiver of Memories and the current Receiver begins referring to himself by this book's title. For 10 points each:

[10] Name this dystopian novel that sees Jonas flee the community with the baby Gabriel.

ANSWER: *The Giver*

[10] *The Giver* won this author her second Newbery Medal.

ANSWER: Lois Lowry

[10] Lowry won her first Newbery for this novel about the rescue of Annemarie Johansen and her Jewish family from Nazi-occupied Denmark.

ANSWER: *Number the Stars*