2015-16 PLATO: Perfectly Likeable Academic Tournament Offering

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Round 5

1. After hoping to meet Rosaline, one of the main characters in this play overhears the other asking him to "deny thy father and refuse thy name." Though fighting has been forbidden by Prince Escalus, this play sees the deaths of Tybalt and Mercutio. This play claims "never was there a story of more woe," such as the deaths by poisoning of the main characters. For 10 points, name this play about two star-crossed lovers, written by William Shakespeare.
ANSWER: ***Romeo and Juliet***

2. This object was rediscovered at the French Fort Julien in 1799, although it currently resides in the British Museum. While Thomas Young determined some properties of its Demotic middle section, it was Jean-Francois Champollion who found that certain symbols on this object represented both full words and syllables. The decree on this slab is also written in Ancient Greek. For 10 points, name this stone that allowed for reading ancient Egyptian hieroglyphics.
ANSWER: **Rosetta Stone**

3. This quantity is sometimes calculated by multiplying one-half by mass by the square of velocity. Elastic collisions, such as colliding billiard balls, preserve the total amount of this quantity. Thermal energy is a type of this energy measured by the velocity of molecules. This quantity is measured in joules and can be converted into potential energy. For 10 points, name this type of energy that an object has due to motion.
ANSWER: **kinetic** energy

4. This man's father was named Haran, as was the place this man's grandfather Terah settled on the way to Canaan. His uncle Abram and he separated and this man settled on the plains of Jordan. Later, he moved into Sodom and welcomed two angels into his home; his refusal to let his neighbors "know" them led to the destruction of Sodom and Gomorrah, which his wife turned to watch. For 10 points, name this Biblical figure whose wife was turned into a pillar of salt.
ANSWER: **Lot**

5. This shape has an eccentricity less than one and greater than zero. Its area can be found by multiplying pi with the product of the semi-major and minor axes. For every point on this curve, the sum of the distances from the two focal points is constant, and this shape can be formed from the intersection of a cone with an inclined plane. Kepler's laws state that all planets move in orbits of this shape. For 10 points, identify this curve that is often called an oval.
ANSWER: **ellipse** [prompt on "oval"]

6. This planet has a longer day, lasting about 243 earthdays, than its year, which lasts about 225 earth days. The Soviet Venera and American Mariner programs investigated this planet and its dense clouds of carbon dioxide and sulfur gas. Known to the ancient Greeks and Romans as the "morning star" and "evening star," for 10 points, name this moon-less planet, often called Earth's twin and located between Earth and Mercury.
ANSWER: **Venus**

7. Along with the Boston Celtics, this NBA team is one of two teams still in its original city. This team's nickname comes from the writings of Washington Irving. Under Coach D'Antoni in February 2012, a mania surrounding a guard of this team became known as "Linsanity." Current stars on this team include Kristaps Porzingis and Carmelo Anthony. For 10 points, name this basketball team that plays in Madison Square Garden.
ANSWER: **New York** **Knicks** [accept either underlined portion or **Knickerbockers**]

8. In one scene in this book, the narrator suddenly realizes that it's his thirtieth birthday. One character hopes that her daughter will be born a fool, which is "the best thing a girl can be in this world." That character is pursued by the main character of this novel, who seeks a green light and throws grand parties in West Egg to try to impress Daisy. For 10 points, name this book by F. Scott Fitzgerald, set in the 1920's, and narrated by Nick Carraway.
ANSWER: The ***Great Gatsby**

9. In 2014, a group of researchers claimed the source of this river was the Mantaro River and not the Apurimac. In what is known as the "Meeting of Waters," this river flows into Manaus and joins the Rio Negro. It has the largest drainage basin in the world, and its native wildlife includes piranhas and anacondas. For 10 points, name this river which flows through a namesake rainforest in Brazil.
ANSWER: **Amazon** River

10. The current chairman of this organization is Reince Priebus *[rynce pree-bus]*. In 1996, Bob Dole ran for president for this party which holds current majorities in the Senate and House. Their first president was Abraham Lincoln, and their platform opposes single-payer healthcare and strong labor unions. For 10 points, name this party of Dwight D. Eisenhower and George W. Bush, which opposes the Democrats in the United States.
ANSWER: **Republican** Party [accept **G**rand **O**ld **P**arty]

11. This poem tells of the events of "the eighteenth of April, seventy-five." The main character of this poem looks up to the Old North Church and sees that the belfry put two lights up, knowing that if one lantern is up, the British are coming by land, and if two are up, they are coming by sea. For 10 points, name this poem by Henry Wadsworth Longfellow about the night a man told Americans that "the British are coming."
ANSWER: "**Paul Revere's Ride**" [accept "The **Landlord's Tale**"]

12. For one extra dollar, players of this game can purchase a "Power Play" multiplier. Taking winnings from this game as 30-year annuities may be more advantageous due to tax reasons. In January 2016, some billboards could not display the full value of the winnings from this game because it exceeded $999 million. To receive the grand prize of this game, one must match five white balls and this game's namesake. For 10 points, name this American lottery game.
ANSWER: **Powerball**

13. This politician's campaign temporarily lost access to his party's voter file in December 2015 due to a firewall breach by one of this senator's staffers. One of his campaign stops in Washington was interrupted by Black Lives Matter protestors. This person and Patrick Leahy make up Vermont's U.S. senate delegation. His supporters often use the hashtag #FeeltheBern. For 10 points, name this 2016 Democratic presidential candidate and self-described democratic socialist.
 ANSWER: Bernie **Sanders**

14. Before joining the Congress of the Confederation, this politician served as an aide to George Washington during the revolution and commanded troops at Yorktown. He founded the *New York Post*, the US Coast Guard, and wrote 51 of the Federalist Papers. His political career was cut short when he was killed in a duel by then-Vice President Aaron Burr. For 10 points, name this politician who was the nation's first secretary of the treasury.
ANSWER: Alexander **Hamilton**

15. While alive, Egyptian pharaohs were believed to be incarnations of this god. Most depictions of this god include the head of a falcon wearing a white crown and in hieroglyphics, he is represented as a falcon. After defeating his uncle in hundreds of challenges and fights, this god was said to become the rightful ruler of the ancient Egyptian civilization. For 10 points, name the Egyptian god who defeated the god Set as revenge for the death of his father, Osiris.
ANSWER: **Horus**

16. Einstein argued that this force, the weakest of the four fundamental interactions, is a result of the curvature of space-time. The acceleration due to this force can be multiplied by mass to obtain weight, which due to the inconsistency in this force, is different from planet to planet. Legend says that Galileo dropped balls and feathers from the Tower of Pisa in an experiment about this force. For 10 points, name this force which seems to cause objects to fall toward Earth.
ANSWER: **gravity** [accept **gravitation**al force]

17. Berlioz's "Harold in Italy" was dedicated to this man, but he was dissatisfied because he thought the piece had too many rests. Sergei Rachmaninoff wrote a rhapsody on a theme of a work by this composer, while Franz Liszt's "La Campanella" uses themes from his second violin concerto. This composer is most famous for writing Twenty-four Caprices for solo violin. For 10 points, name this celebrated Italian violin virtuoso.
ANSWER: Niccolo **Paganini**

18. In this novel, one character falls in love with Kitty, but also is romanced by Milady de Winter. That main character gets in three duels on his first day in Paris, with a valiant man, a man who loves women, and a man who wants to be a priest. All three of these men team up to defend the king against Cardinal Richelieu. For 10 points, name this novel about D'Artagnan, featuring the trio Athos, Porthos, and Aramis, who say "all for one, and one for all!"
ANSWER: The **_Three Musketeers_**

19. This island's northern border is the Harlem River. The Castle Clinton National Monument is in this island's Battery Park. Neighborhoods located on this island include SoHo and TriBeCa. Its very regular street grid is interrupted by the diagonal crossing of Broadway, which runs nearly the entire length of this island. It is located between the Hudson River and the East River and features Central Park. For 10 points, name this heavily populated island in New York City.
ANSWER: **Manhattan** Island

20. In 1999, she received the Congressional Gold Medal and was honored by President Bill Clinton during his state of the union. She is best known for an act of civil disobedience in 1955 in the city of Montgomery, Alabama, for which she was arrested. She had, however, joined the movement in 1943 and was secretary of her local NAACP chapter. For 10 points, name the civil rights activist best known for her refusal to give up her bus seat.
ANSWER: Rosa **Parks**

TB. One scientist with this surname showed that materials lose permanent magnetic properties at a certain temperature. The element of atomic number 96 is named after two scientists of this surname. Those two shared a Nobel Prize in Physics with Henri Becquerel for their work on radioactivity and one of them also won a Nobel Prize in Chemistry for her discovery of radium and polonium. For 10 point, give this surname of the scientists Pierre and Marie.
ANSWER: **Curie**

Bonuses

1. This man was assassinated by Nathuram Godse in 1948. For 10 points each:
[10] Name this man, given the title *mahatma*, who promoted non-violence to protest British imperialism.
ANSWER: Mohandas **Gandhi** [accept Mahatma **Gandhi** or **Gandhiji**; prompt on **Bapu**]
[10] Gandhi led the independence movement of this Asian nation. Its current prime minister is Narendra Modi.
ANSWER: Republic of **India**
[10] Gandhi led a march to Dandi that protested British taxes on this substance. African empires often traded this substance for gold.
ANSWER: **salt**

2. Give these scientific terms that you might have included in recent texts to your friends. For 10 points each:
[10] The leaves of the plant *Camellia sinensis* are used to make this drink, which is called black when fully oxidized and green when it is unoxidized and unwilted.
ANSWER: **tea**
[10] These bodies of water are basically indentations in the shoreline, often smaller than gulfs and larger than coves. Examples on the east coast of the U.S. include ones named Chesapeake and Tampa.
ANSWER: **bay**
[10] This computer programming language developed at Dartmouth was named for its design to be very simple; it has spawned varieties one of which is known as "Visual".
ANSWER: **BASIC** [accept **Beginner's All-purpose Symbolic Instruction Code**; accept **Visual Basic**]

3. Name these Canadian provinces, for 10 points each.
[10] This province is the most populous and borders both Minnesota and New York. The capital Ottawa and the major city of Toronto both lie in this province.
ANSWER: **Ontario**
[10] This island, discovered by Leif Eriksson, names part of a province joined with the mainland portion of Labrador.
ANSWER: **Newfoundland**
[10] Although not a province, this Canadian territory is the newest, having been created in 1999 as a territory for the Inuit peoples.
ANSWER: **Nunavut**

4. This fictional "consulting detective" is known for his fantastic abilities of observation and logical reasoning. For 10 points each:
[10] Identify this character created by Sir Arthur Conan Doyle. He is often accompanied by the doctor John Watson.
ANSWER: **Sherlock** **Holmes** [accept either underlined name]
[10] This clever female character is only referred to by Holmes as "*the* woman" and is one of the few characters to outwit him. In many modern adaptations, she is the detective's romantic interest.
ANSWER: **Irene** **Adler** [accept either underlined name]
[10] In the story where Irene appears, Holmes asks Watson to meet him at this address where he lives and conducts his business with Watson. Mrs. Hudson is the landlady of this address.
ANSWER: **221B Baker Street**, London, England

5. COMPUTATION: Train A takes 2 hours and 40 minutes to travel between two towns that are 80 miles apart. For 10 points each.
[10] How fast is Train A traveling in miles per hour?
ANSWER: **30** miles per hour
[10] Train B is at a stop 100 miles away from Train A. If Train A starts traveling at 30 miles per hour and Train B begins traveling towards Train A at 20 miles per hour, how long will it take them meet?
ANSWER: **2** hours
[10] A bird is perched on Train A. When the trains start moving, the bird begins to fly at a speed of 120 miles per hour back and forth between the approaching trains. How much distance will it have traveled once the trains meet?
ANSWER: **240** miles

6. Although marking on public property is banned in most places, many have turned it into an art form. For 10 points:
[10] Name this practice of painting public spaces, which is sometimes considered vandalism.
ANSWER: **graffiti** [or **street art**]
[10] This British street artist produced the film "Exit Through the Gift Shop." Another work by him is called "Sirens of the Lambs" and is a travelling installation of crying stuffed animals in a meat truck.
ANSWER: **Banksy**
[10] Shepard Fairey, another well-known street artist, is widely known for producing the "Hope" posters for this man's 2008 presidential campaign.
ANSWER: Barack **Obama**

7. For 10 points each, name these American innovators of the early 20th century.
[10] The Wright brothers, who successfully built a flying airplane in 1903 which they tested in Kitty Hawk, North Carolina, had these first names. You must give both for points.
ANSWER: **Orville** Wright and **Wilbur** Wright
[10] This car manufacturer invented the assembly line to mass-produce Model Ts. He names a "motor company" that is rivals with General Motors.
ANSWER: Henry **Ford**
[10] This man created the first billion-dollar company, U.S. Steel, as well as helped to found General Electric. He names a bank that merged with Chase in 2000.
ANSWER: J.P. **Morgan** [accept John Pierpont **Morgan**]

8. This festive day was first popularized during the 19ᵗʰ century, brought to North America with mass Irish and Scottish immigration. For 10 points each:
[10] Name this autumn holiday, sometimes referred to as All Hallow's Eve, during which children promise to "trick" those who do not "treat" them with candy.
ANSWER: **Halloween**
[10] Many Halloween traditions were adapted from this Celtic harvest festival. The legendary Fionn Mac Cumhaill *["Finn MacCool"]* slayed a fire-breather on one of these festivals.
ANSWER: **Samhain** *[pronounced "sow-in" or "saw-in" but accept all reasonable phonetic pronunciations as well]*
[10] Another holiday at the same time of year is this one, a day on which Mexican families honor the deceased and bring them offerings of marigolds and candy skulls.
ANSWER: **Día de los Muertos** [or **Day of the Dead**; accept **Día de Muertos**]

9. When this legendary wizard was a young boy, he demonstrated that a fortress kept collapsing because it was built over a lake containing a red dragon and a white dragon. For 10 points each:
[10] Identify this wizard who created the Round Table for King Uther Pendragon.
ANSWER: **Merlin**
[10] Merlin tutors a young King Arthur in "The Sword in the Stone", the first work in this author's series, "The Once and Future King."
ANSWER: T(erence) H(anbury) **White**
[10] The sword in the stone is not to be confused with Excalibur, a later weapon of King Arthur's which was given to him by this figure. She is the ruler of Avalon.
ANSWER: The **Lady of the Lake**

10. These networks of links begin with a producer organism. For 10 points each:
[10] Name these networks that show how organisms are related to each other by what they eat.
ANSWER: **food chain**s [accept **food web**s]
[10] This is the position of an organism in a food chain. Producers are at the first of these positions.
ANSWER: **trophic level**
[10] This is the name for the carnivore that is at the top of a food chain that is not prey to any other creature.
ANSWER: **apex** predator [prompt on **predator**]

11. Name these places where residents may dispute Chinese control, for 10 points each.
[10] This island, formerly called Formosa, is ruled by a government that claims to still have control over all of China and was once led by Chiang Kai-shek. Mainland China claims this island as well.
ANSWER: **Taiwan** [prompt on **Republic of China**]
[10] Chinese interference in local elections of this region led to the 2014 Umbrella Revolution. This metropolis was administered by the British until 1997.
ANSWER: **Hong Kong**
[10] Across the Pearl River Delta from Hong Kong is this other region, transferred to Chinese control from Portugal in 1999.
ANSWER: **Macau**

12. Multiplication of two of these objects only works when the number of columns in the first is equal to the number of rows in the second. For 10 points each:
[10] Identify these rectangular arrays of numbers.
ANSWER: **matrix** [accept **matrices**]
[10] "a times d minus b times c" is the formula for a matrix's determinant when that matrix is 2 by 2; such a matrix has this shape, where the number of rows and columns are equal.
ANSWER: **square** matrix
[10] One example of a sqaure matrix is this number puzzle, popular in Japan, where every row and column must contain the numbers 1 through 9.
ANSWER: **sudoku**

13. Chemists have special names for certain compounds based on their structures. For 10 points each:
[10] Molecules that contain 8 carbon atoms are known by this name. The concentration of this compound in gasoline is used to rate gasoline's performance.
ANSWER: **octane**
[10] This hydrocarbon with chemical formula C_2H_2 is often used as a fuel for welding torches.
ANSWER: **acetylene** [accept **oxyacetylene** torches or **ethyne** *{rhymes with "mine"}*]
[10] August Kekulé theorized the cyclic structure of benzene after having a dream about one of these animals biting its own tail.
ANSWER: **snake**

14. This battle is depicted in the Bayeux *["bayou"]* Tapestry. For 10 points each:
[10] Name this battle, during which Harold Godwinson was killed by an arrow lodged in his eye. It was preceded by the Battle of Stamford Bridge.
ANSWER: Battle of **Hastings**
[10] This man became King of England after winning the 1066 Battle of Hastings. He was later given the epithet "the Conqueror."
ANSWER: **William** the Conqueror [accept **William I** of England; accept but do not otherwise reveal **William II** of Normandy]
[10] William the Conqueror hailed from this French region. During World War II, the D-Day landings occurred in this region.
ANSWER: **Normandy**

15. As a child, this hero lost a swimming contest to his friend, Breca the Bronding. For 10 points each:
[10] Name this Old English epic in which the title hero comes to the aid of King Hrothgar by slaying a descendant of Cain.
ANSWER: _**Beowulf**_
[10] That descendant of Cain is this monster who returns nightly to Hrothgar's mead hall to eat warriors. This creature's mother is the second antagonist in the poem.
ANSWER: **Grendel**
[10] In Beowulf's fatal battle with a dragon, only this young warrior is able to overcome his fear and help his king in battle.
ANSWER: **Wiglaf**

16. For 10 points each, answer these questions on a topic I cannot reveal.
[10] When sensitive government documents are released, some sections are covered in black boxes. The process of marking out these sections is known by this name.
ANSWER: **redact**ing [accept word forms; accept **sanitizing** or word forms]
[10] Some judges use gag orders, which prohibit parties in a case from discussing it publicly, to protect the rights to a fair and speedy trial guaranteed by this US constitutional amendment.
ANSWER: **sixth** amendment [accept **six**]
[10] This room in a house is often a metaphor for closely-held secrets; one might "have skeletons in" theirs, or if one is secretly gay or lesbian, they might still be "in" this room.
ANSWER: the **closet**

17. This country and pop singer has often been criticized for writing songs about her ex-boyfriends, though her album "Fearless" became the best selling album of 2009. For 10 points each:
[10] Name this singer whose first single debuted in 2006.
ANSWER: Taylor **Swift**
[10] Swift named her 2014 album after this year, important to her as the year she was born.
ANSWER: **1989**
[10] The album _1989_ was covered track-for-track by this other singer-songwriter, who was once married to Mandy Moore and whose biggest hit was 2001's "New York, New York.".
ANSWER: Ryan **Adams**

18. Republican presidential candidate Rand Paul hails from this state. For 10 points each:
[10] Name this southern U.S. state, also home to Senate majority leader Mitch McConnell.
ANSWER: **Kentucky**
[10] This current governor of Kentucky has pledged to dismantle the Kentucky health insurance exchange and has removed the names of county clerks from state marriage licenses.
ANSWER: Matt(hew) **Bevin**
[10] This county clerk in Rowan County prompted the latter action; she refused to issue licenses to same-sex couples citing her religious beliefs.
ANSWER: Kim **Davis**

19. This event occurred about 14 billion years ago and was the beginning of the universe. For 10 points each:
[10] Identify this event named for the extremely rapid expansion of the universe.
ANSWER: **Big Bang**
[10] Since the Big Bang, the universe has been expanding at an accelerating rate, many think as a result of this mysterious and difficult-to-observe form of energy.
ANSWER: **dark** energy
[10] The simplest form of dark energy is the cosmological constant, which is symbolized by this Greek letter equivalent to 'L'.
ANSWER: **lambda**

20. In this story, the Other Mother wants to sew buttons into the protagonist's eyes. For 10 points each:
[10] Name this children's novel in which the title character discovers an alternate world through a hidden passage. As a result, the Other Mother kidnaps the protagonist's real parents.
ANSWER: *Coraline*
[10] In this other story, Jack Frost murders everyone in the Dorian family except a toddler, who is raised by ghosts and named Nobody Owens.
ANSWER: *The Graveyard Book*
[10] Both *Coraline* and *The Graveyard Book* were written by this science fiction author.
ANSWER: Neil **Gaiman**

TB. For 10 points, name some noteworthy popes of the Catholic Church:
[10] This current pope takes his name from the patron saint of animals and has declared that even atheists who do good can be redeemed.
ANSWER: Pope **Francis** [accept Jorge Mario **Bergoglio**]
[10] This pope's trip to his native Poland influenced the creation of the Solidarity movement. This pope also spoke out against the growth of the "culture of death" in the modern world.
ANSWER: Pope **John Paul II** [accept Karol Jozef **Wojtyla**; prompt on **John Paul**]
[10] This pope called for the First Crusade and offered a remission of sins for those who would participate in it.
ANSWER: Pope **Urban II** [accept **Odo** of Chatillon or Otho **de Lagery**; prompt on **Urban**]