

2015-16 PLATO: Perfectly Likeable Academic Tournament Offering

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Round 2

1. One scene in this novel sees a group of animals compete in a caucus race with no clear winner. One hookah-smoking character in this novel tells the protagonist of the size changing abilities of a mushroom after asking her, “who are you?” The protagonist of this novel interacts with a cat that slowly vanishes, leaving behind only its grin. For 10 points, name this novel in which the title girl falls down a rabbit hole into a magical world, a work by Lewis Carroll.

ANSWER: Alice’s Adventures in Wonderland [or Alice in Wonderland]

2. This god was once forced to build the walls of Troy under King Laomedon’s orders. He was once caught in a temple with Medusa, after which Athena turned Medusa and her sisters into the Gorgons. In a contest over the patronage of Athens, his saltwater spring lost to Athena’s olive tree. This god tried to kill Odysseus by wrecking his raft and cursing him to sail for 10 years. For 10 points, name this Greek god of horses and the sea.

ANSWER: Poseidon

3. This disease is commonly treated with medications such as oseltamivir and zanamivir. Its B type only infects humans, seals, and ferrets. One outbreak of this disease in 1918 was hastened by the movement of troops in World War I. The surface proteins hemagglutinin and neuraminidase are used to classify these viruses, which are often given names like H5N1 and H1N1. For 10 points, name this group of viruses that comes in “Spanish,” “bird,” and “swine” types.

ANSWER: influenza [or flu; accept Spanish flu until “Spanish”]

4. This composer set several Venetian Boat Songs in his *Songs Without Words*. He founded the Leipzig Conservatoire. His visit to Fingal's Cave inspired his *Hebrides Overture* and he also composed the *Italian* and *Scottish* symphonies. He is most known for his incidental music to a play including Puck, Titania, and Oberon. For 10 points, name this German composer of a Wedding March and other incidental music to *A Midsummer Night's Dream*.

ANSWER: Felix Mendelssohn

5. In a reference to the Gettysburg Address, this speech opens with “Five score years ago.” Its most famous lines were prompted by an outburst from Mahalia Jackson. Its speaker delivered this speech in 1963 at the March on Washington, and said that he hoped his children would be judged by the “content of their character.” For 10 points, name this speech by Dr. Martin Luther King Jr., talking about his vision for the future.

ANSWER: I Have a Dream

6. The highest point in this national park is Telescope Peak. This park was once home to Glacial Lake Manly, and a current feature is a dry lakebed known as Badwater Basin. Racetrack Playa in this park is home to the famous sailing stones. This park in the Mojave Desert is known for having the highest ever recorded temperature in North America. For 10 points, name this California national park home to the point with the lowest elevation in North America.

ANSWER: **Death Valley National Park**

7. One holder of this office killed Alexander Hamilton in a duel while in office. That man was Aaron Burr. John Adams called this political office the “most insignificant office that ever the invention of man contrived” while he was in this office. Thomas Jefferson held this office when Adams was president, before Jefferson, too, became president. For 10 points, name this American political office currently held by Joe Biden.

ANSWER: **Vice President** of the United States [accept **President of the Senate**]

8. This character travels from Trondheim to Lusitania, where he meets the alien “piggies” who die and become trees. The original book featuring this character is set 3,000 years earlier on an Earth governed by Starways Congress. This protagonist of a book series was born due to the failure of his older siblings to be accepted into Battle School. For 10 points, name this character who commits xenocide on the “bugger” race in a novel by Orson Scott Card.

ANSWER: **Ender** Wiggin [prompt on **Wiggin**; prompt on **Speaker** for the Dead; accept **Andrew** Wiggin]

9. This scientist’s Annus Mirabilis papers helped him to win a 1921 Nobel Prize in Physics for his discovery of the law of the photoelectric effect. One of this physicist’s theories states that spacetime is curved by mass and also predicts time dilation. That theory is called general relativity. He is also known for his mass-energy equivalence formula, $E = mc^2$. For 10 points, identify this German-American physicist whose name is now synonymous with “genius”.

ANSWER: Albert **Einstein**

10. Opposition forces in this country’s civil war include a namesake “Free Army.” The terrorist group known as ISIL or Da’esh controls much of the eastern part of this country. A passport from this country was found near one of the bombing sites after the November 2015 terror attacks in Paris, so many US governors refused to allow refugees from this country to enter their states. For 10 points, name this Middle Eastern country led by Bashar al-Assad.

ANSWER: **Syria**

11. The Kermode or “spirit” type of these animals were made pure white by the creator to remind people of the Ice Age. In Korean mythology, one of this animal ate twenty cloves of garlic and mugwort while staying out of the sunlight for 100 days, after which she was transformed into a human. In Greek mythology, Callisto and her son Arcas were placed into the sky as these animals. For 10 points, name this animal represented in the constellations Ursa Major and Ursa Minor.

ANSWER: **bears**

12. Under his father's command, this man was responsible for defeating the Sacred Band of Thebes in 338 BC. Legend has it that this man solved the Gordian Knot by slicing it with his sword. After this leader's death, his generals, the Diadochi, divided his empire, which stretched from Greece to India. As a youth, this leader was tutored by Aristotle. For 10 points, name this Macedonian king who conquered the Persian Empire.

ANSWER: **Alexander the Great** [accept **Alexander III of Macedon**]

13. A Hertzsprung-Russell diagram plots properties of these objects, such as their magnitude and temperature. Two of these objects that revolve around a common center of mass are called binary. As the process of fusion slows down, these may become white dwarfs. After expanding and becoming red giants, these objects can explode in a supernova. For 10 points, name these astronomical bodies that shine brightly in the night sky.

ANSWER: **stars**

14. One short story in this book sees the villainous cobras Nag and Nagaina killed by the title mongoose defending a family of humans. That story is "Rikki-Tikki-Tavi." One character in this book is adopted by Messua after being raised by Raksha the wolf. That character kills the lame tiger Shere Khan in this book. For 10 points, name this collection of stories that includes three stories about the "man-cub" Mowgli, a work by Rudyard Kipling.

ANSWER: **The Jungle Book**

15. This franchise began with a Shonen Jump manga series that initially placed much greater emphasis on dealing with evildoers than the game at the center of the franchise. One anime series of this franchise sees the central game played in Turbo Duels. The protagonist of that series is Yusei Fudo, whose ace monster is Stardust Dragon. For 10 points, name this franchise that includes a real world counterpart to Duel Monsters, Yugi Muto's favorite card game.

ANSWER: **Yu-Gi-Oh!**

16. The gamma function extends this function to real and complex numbers. A combination of k elements chosen from n is equal to $\frac{n!}{k!(n-k)!}$ this function of n divided by this function of both k and n minus k . This function at zero is one, and the n th value of this function is defined as the product of all positive integers less than and equal to n . For 10 points, identify this function that is represented by an exclamation point.

ANSWER: **factorial**

17. This tribe, along with Chickasaw, Choctaw, Creek, and Seminole, was among the "Five Civilized Tribes." One member of this tribe, Sequoyah, developed a syllabary to represent this tribe's language in writing. This tribe lost an 1831 Supreme Court case against Georgia. The Treaty of New Echota forced this tribe to go on the Trail of Tears. For 10 points, name this Native American tribe that is originally indigenous to the southeastern U.S.

ANSWER: **Cherokee**

18. In one poem by this author, a character is said to be “all pine” while the narrator is “all apple orchard,” and “good fences” are said to make “good neighbors.” This poet of “Mending Wall” has “miles to go before” he sleeps in his “Stopping by Woods on a Snowy Evening.” This poet’s most famous work sees a young man take a path which “has made all the difference” after “two roads diverged in a yellow wood.” For 10 points, name this poet of “The Road Not Taken.”

ANSWER: Robert **Frost**

19. This country’s state of Mato Grosso contains the headwaters of the Paraguay River. Pico da Neblina is the highest mountain in this country and is located near the Equator. The martial art of capoeira originated here, as did the celebration of Carnaval in this country’s city of Rio de Janeiro. This country contains most of the rainforest surrounding the Amazon River. For 10 points, name this large South American country where Portuguese is spoken.

ANSWER: **Brazil**

20. One of these animals named Elsey tells Maureen that “in Cyberland we only drink Diet Coke” in the musical *RENT*. In an Irish myth, Cuchulainn is unable to prevent one of these animals from being stolen in a famous “raid of Cooley.” In *Into the Woods*, one of these named Milky White is Jack’s only friend. A “pox” of these animals was the source of the first vaccines. For 10 points, name this common bovine animal which chews its cud and produces milk.

ANSWER: **cows** [accept **cattle** or **bulls**]

TB. Crystals in this phase of matter are often used in modern electronic displays. In supercooling, the temperature of this phase of matter is lowered past the point it usually exists. Sublimation bypasses this phase, which cannot exist beyond the critical point. At room temperature, mercury exists in this condensed phase of matter, which does not compress easily and assumes the shape of its container. For 10 points, name this state of matter that is not solid or gas.

ANSWER: **liquid** phase

BONUSES

1. Identify some common pieces of laboratory equipment, for 10 points each.

[10] This narrow container has horizontal markings to precisely measure the volume of a liquid.

ANSWER: **graduated cylinder**

[10] This device uses adjustable valves for air and gas flow to create a controlled open flame. It is often used in flame tests and is named after a German chemist.

ANSWER: **Bunsen burner**

[10] Bunsen burners often utilize natural gas, which is primarily composed of this compound with chemical formula CH₄.

ANSWER: **methane**

2. This biblical hero was abducted from Jerusalem by Nebuchadnezzar along with his friends Shadrach, Meshach, and Abednego. For 10 points each:

[10] Name this hero who survived a den of lions after being accused of worshipping God.

ANSWER: **Daniel**

[10] Daniel is considered one of these people by Christian churches, but not in Judaism. These people served as intermediaries, delivering messages for God.

ANSWER: **prophet**

[10] Daniel had the ability to interpret dreams, a trait that he shared with this favored son of Jacob who was sold into slavery after his father gave him a colorful coat.

ANSWER: **Joseph**

3. Answer the following bonus about the colorful history of discrimination in America. For 10 points each:

[10] After World War II, Joseph McCarthy was a leading proponent of the idea that America was being taken over by Communism, a belief often given this two-word name.

ANSWER: **Red Scare**

[10] This man sat on the San Francisco Board of Supervisors alongside Harvey Milk, and was convicted of manslaughter for the deaths of Milk and Mayor George Moscone.

ANSWER: Dan **White**

[10] This three-word phrase reflects support by some people who believe that police officers are being unfairly criticized, similar to a phrase used by African-Americans since 2013.

ANSWER: **Blue Lives Matter**

4. This book's narrator once drew a picture of a boa constrictor digesting an elephant. For 10 points each:

[10] Name this book that sees its title character leave his home asteroid and explore space objects, such as Earth, the most famous work of Antoine de Saint-Exupéry.

ANSWER: "The **Little Prince**"

[10] "The Little Prince" was written in this language of Saint-Exupéry's home country. Other authors who primarily wrote in this language include Alexandre Dumas and Albert Camus.

ANSWER: **French**

[10] This other French language novel, a work by Camus, sees the title character Mersault kill an Arab during a fit of heat stroke.

ANSWER: *The **Stranger*** [accept *L'**Etranger***]

5. For 10 points each, answer these questions about multiplication:

[10] This number is the multiplicative identity. A number multiplied by this has a product of the original number.

ANSWER: **1**

[10] This property states that when two numbers are multiplied, their order does not matter.

ANSWER: **commutative** property

[10] This property states that when three or more numbers are multiplied, the grouping of the factors does not change the product.

ANSWER: **associative** property

6. Let's play soccer geography! For 10 points each:

[10] This nation in Europe does not field an international soccer team; instead, citizens of this nation compete for their "home countries" such as Wales or Northern Ireland.

ANSWER: **United Kingdom** of Great Britain and Northern Ireland [accept **Great Britain**; do not accept subdivisions such as England, Scotland, Wales or Northern Ireland]

[10] Like many other teams named "New England," the New England Revolution of the MLS play in this state. The team plays at Gillette Stadium in this state's city of Foxborough.

ANSWER: **Massachusetts**

[10] The first FIFA World Cup in 1930 was held in this country as they were the reigning Olympic champions. All matches took place in its capital city, Montevideo.

ANSWER: **Uruguay**

7. This theory was presented in "On the Origin of Species" and was developed independently by Alfred Russell Wallace. For 10 points each:

[10] Name this process in which organisms that are better adapted to their environment survive longer and produce more offspring, thus passing on their advantageous traits.

ANSWER: **natural selection** [prompt on **evolution**]

[10] "On the Origin of Species" was written by this English naturalist, who studied in the Galapagos while sailing with the *HMS Beagle*.

ANSWER: Charles **Darwin**

[10] Darwin hypothesized that these animals adapted the shape of their beaks in order to effectively consume different kinds of food.

ANSWER: Darwin's **finches** [prompt on **birds**]

8. This singer rose to fame after being discovered on YouTube. For 10 points each:

[10] Name this Canadian pop star whose hit song “Baby” is the most disliked video in YouTube history.

ANSWER: Justin **Bieber**

[10] Bieber’s recent album *Purpose* contains this first song by Bieber to reach number one. In it, Bieber repeatedly says, “Better make up your mind,” before asking the question in this song’s title.

ANSWER: “**What Do You Mean?**”

[10] Bieber also provided the vocals for this DJ’s collaboration with Diplo, “Where are Ü Now?”

ANSWER: **Skrillex** [accept **Sonny Moore**]

9. In this novel, the main character is present for the firebombing of Dresden and meets the alien Tralfamadorians. For 10 points each:

[10] Name this book that sees the optometrist Billy Pilgrim become “unstuck in time.”

ANSWER: ***Slaughterhouse-Five***

[10] This author of *Slaughterhouse-Five* introduced the recurring character of Kilgore Trout in his novel *God Bless You, Mr. Rosewater*.

ANSWER: Kurt **Vonnegut**

[10] *Slaughterhouse-Five* topped the Best Seller list of this newspaper, whose motto is “All the News That’s Fit to Print.”

ANSWER: The **New York Times** [prompt on **Times** or **NYT**]

10. During the feudal age, this country had warriors who followed the Bushido code. For 10 points each:

[10] Name this country whose Kamakura period saw the samurai caste emerge.

ANSWER: **Japan**

[10] Also during the Kamakura period, Mongol fleets attempted two attacks on Japan that were both repelled by this “divine wind.” Later, this term referred to Japanese suicide attacks by plane.

ANSWER: **kamikaze**

[10] Those Mongol fleets were led by this grandson of Genghis Khan who established the Yuan dynasty.

ANSWER: **Kublai Khan**

11. Asia is the most populous continent on Earth. For 10 points each, name some things about Asian capital cities.

[10] This city is the capital of China. Tiananmen Square is located in this city.

ANSWER: **Beijing**

[10] This is the capital of Thailand, located on the Chao Phraya River.

ANSWER: **Bangkok**

[10] Ulaanbaatar is the capital of this Asian country, the center of a former empire led by Genghis Khan.

ANSWER: **Mongolia**

12. This painter was known for his impasto technique, in which paint is laid on so thickly that it creates visible texture. For 10 points each:

[10] Identify this Dutch Post-Impressionist painter. He is famous for his many depictions of sunflowers and a self-portrait.

ANSWER: Vincent **Van Gogh**

[10] This famous Van Gogh painting shows a town with a wavy cypress tree in the foreground under a dark swirling sky.

ANSWER: ***Starry Night***

[10] This other Post-Impressionist lived with Van Gogh for nine weeks at Arles. He is known for his paintings of village life in Tahiti.

ANSWER: Paul **Gauguin** ["go-gan"]

13. This scientist engaged in a "War of Currents" against Thomas Edison. For 10 points each:

[10] Name this Serbian-American scientist who advocated for an AC electric grid and created a namesake coil often used to create electric 'zaps'.

ANSWER: Nikola **Tesla**

[10] This inventor, currently the CEO of Tesla Motors, has proposed a hyperloop transporter and founded the private space exploration company SpaceX.

ANSWER: Elon **Musk**

[10] Musk appeared in a 2010 Marvel film where he tells this character that he has an "idea for an electric jet."

ANSWER: Tony **Stark** [accept **Iron Man**; accept **Iron Man 2**]

14. This collection of poems includes one where a character writes "I'm writing these lines from inside a lion, and it's rather dark in here." For 10 points each:

[10] Name this collection of children's poems which includes the title poem about a place "before the street begins."

ANSWER: ***Where the Sidewalk Ends***

[10] *Where the Sidewalk Ends* is by this poet of "A Boy Named Sue."

ANSWER: Shel **Silverstein**

[10] Silverstein also wrote and illustrated this children's picture book about a boy taking advantage of a tree who loves him.

ANSWER: *The **Giving Tree***

15. For 10 points each, name these key figures of the Age of Discovery:

[10] This Portuguese explorer was the first European to sail to India, going past the Cape of Good Hope like Bartolomeu Dias.

ANSWER: Vasco **da Gama**

[10] This other Portuguese explorer did not live to see his Spanish expedition become the first to successfully circumnavigate the globe, as he died in a battle in the Philippines.

ANSWER: Ferdinand **Magellan**

[10] This French explorer claimed Canada for France and described the Saint Lawrence River.

ANSWER: Jacques **Cartier**

16. COMPUTATION: Desi wants to buy a Lionel Messi jersey that is priced at \$60. For 10 points each:

[10] If the jersey is 45% off the original \$60 for Black Friday, what is the new price?

ANSWER: \$33

[10] When Desi checks out, he is told he will have to pay a 5 percent sales tax on top of the price. How much would Desi pay in total for the jersey including tax?

ANSWER: \$34.65

[10] Since Desi find he does not have enough to purchase the jersey, he waits until Cyber Monday. If the Cyber Monday offer is 50% off and the tax is still 5%, how much will the jersey cost in total?

ANSWER: \$31.50

17. This chemical's solid phase is less dense than its liquid phase and it is often called the universal solvent. For 10 points each:

[10] Identify this substance which might also be called dihydrogen monoxide.

ANSWER: water [or H₂O]

[10] Because of their structure, water molecules have this property, in which one end of the molecule has a slight positive charge and the other a slight negative charge.

ANSWER: polar

[10] Water has a high value for this quantity, which is the cohesive force that holds liquids together. Water striders can walk on water because of this.

ANSWER: surface tension

18. In 2014, Berkeley, California became the first city U.S. city to implement one of these on sugary drinks. For ten points each:

[10] Give the term for an amount of money, typically a percent of a purchase, that consumers often have to pay in order to fund government projects.

ANSWER: sales taxes [do not accept answers that specify other kinds of taxes]

[10] In the United States, income taxes are collected by this agency under the Department of Treasury.

ANSWER: Internal Revenue Service

[10] Most personal income tax returns are filed using this IRS form number, which also comes in an "EZ" version used by people with no dependents and no itemized deductions.

ANSWER: IRS Form 1040

19. Members of this gang saved children from a burning church. For 10 points each:

[10] Name this rough literary gang whose members include Johnny and Ponyboy.

ANSWER: The Greasers

[10] The Greasers' rival gang is this gang of middle class students. Their name is short for "Socials."

ANSWER: The Socs ["so-shiz"]

[10] The Greasers and Socs appear in this novel by S. E. Hinton.

ANSWER: *The Outsiders*

20. The ground beneath your feet is moving! For 10 points each, answer these questions about that movement.

[10] These are the slabs of the Earth's lithosphere that move around the surface and slide past and underneath one another.

ANSWER: tectonic **plates**

[10] At a convergent plate boundary, one plate may slide underneath another in this process which has a namesake "zone".

ANSWER: **subduction**

[10] One such subduction zone is located at the eastern boundary of the Nazca Plate, whose subduction is responsible for this mountain range containing Chimborazo.

ANSWER: the **Andes** mountain range

TB. Name some things about presidential candidates who dropped out of the 2016 election, for 10 points each.

[10] This former Virginia senator was a Republican who served as Reagan's Secretary of the Navy, but ran as a Democrat until dropping out in October 2015.

ANSWER: James "Jim" **Webb**, Jr.

[10] Bobby Jindal, who ran in the Republican primary until November, served as governor of this southern state from 2007 to 2015. This state's capital is Baton Rouge.

ANSWER: **Louisiana**

[10] Among the first to drop out was this Republican candidate, the former governor of Texas who notably said "oops" in a 2012 debate when he forgot the name of a cabinet department.

ANSWER: Rick **Perry**