

2015-16 PLATO: Perfectly Likeable Academic Tournament Offering

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Round 3

1. During this conflict, a prisoner of war used Morse Code on a televised interview to spell “torture.” A guerilla attack during a Lunar New Year truce in this war surprised American soldiers. The use of Agent Orange to defoliate trees during this conflict was controversial for its health effects on soldiers. During this war, one side captured Saigon and renamed it Ho Chi Minh City. For 10 points, name this controversial war fought in a southeast Asian country.

ANSWER: Vietnam War

2. One poem by this author tells of the tintinnabulation of the title bells. The narrator of one short story by this author reads the “Mad Trist” at the House of Usher before it collapses. Another of this man’s characters was inspired to kill a man with the eye of a vulture. One creature in a poem by this author repeatedly says “Nevermore.” For 10 points, name this American author of dark stories and poems such as “The Tell-Tale Heart” and “The Raven.”

ANSWER: Edgar Allan Poe

3. This man wrote that “faith, hope and love abide” and that “the greatest of these is love” in one of his letters. This man advocated for the torture of Christians until Jesus came to him in a vision which left him blind for three days. This man then became a Christian missionary in Asia Minor and the Aegean until he was imprisoned in Rome. For 10 points, name this apostle who converted on the Road to Damascus and abandoned the name Saul.

ANSWER: Saint Paul [accept Saul of Tarsus until “Saul”]

4. This scientist’s original plans to study mice were discouraged by his bishop, leading this scientist to switch to plants instead. This man formulated the laws of segregation and independent assortment after studying properties such as purple versus white flowers and round versus wrinkled seeds in the *Pisum sativum* species, and for that he is often called the father of genetics. For 10 points, name this monk who is known for his work with peas.

ANSWER: Gregor Mendel

5. This river is the location of the reservoir Lake Nasser, formed by the Aswan High Dam being built on this river. This river has two major tributaries that are named the “Blue” and “White”. Those rivers converge at Khartoum, the capital of Sudan, and the “White” begins at Lake Victoria in Uganda. For 10 points, name this African river which often flooded to bring nutrients to the farms of ancient Egypt, the longest river in the world.

ANSWER: the Nile River

6. This company's EA 189 engine was built with a common-rail fuel injector. In 2014, the International Council on Clean Transportation studied the emissions of this company's Passat and Jetta models, and further studies confirmed a device in this company's diesel vehicles which defeated emissions tests and allowed this company's cars to emit more pollution than the law allows. For 10 points, name this German auto manufacturer famous for its Beetles.

ANSWER: Volkswagen Group

7. During a battle at this location, Ethan Allen called one person at this location an "old rat." This star-shaped fort was constructed during the French and Indian War. This fort's location near Lake Champlain made it useful in monitoring trade routes between New York and Canada. Cannons and weapons from this location were instrumental during the American Revolutionary War. For 10 points, name this fort in northern New York.

ANSWER: Fort Ticonderoga

8. This man allegedly invented a parabolic mirror that he used as a heat ray to burn ships attacking his city. Another invention of his uses a spiral blade inside of a cylinder to efficiently raise water and is called his namesake "screw." While taking a bath, this mathematician discovered the method of water displacement to measure volume and shouted "I have found it!" in Greek. For 10 points, name this Ancient Greek scholar from Syracuse who exclaimed "Eureka!"

ANSWER: Archimedes

9. One member of this movement wrote a novel about Janie Crawford, who narrates her story about her life and three marriages to her friend Pheoby Watson. One poem written by a famous member of this movement asks, "What happens to a dream deferred?" This movement created a rebirth of African American literature and included members such as Zora Neale Hurston and Langston Hughes. For 10 points, name this movement centered in a New York neighborhood.

ANSWER: the Harlem Renaissance [or the New Negro Movement]

10. This set of statements was revised by Euler to account for an object's size and shape. The first of these statements defines uniform motion by stating that when the net force is zero, an object's velocity does not change. The second states that force equals mass times acceleration, and the third one of these states that for every action there is an equal and opposite reaction. For 10 points, name these three laws formulated by Newton about moving objects.

ANSWER: Newton's Laws of Motion [accept Newton's laws until "Newton"]

11. This man's book *A History of the English-Speaking Peoples* helped to earn him a Nobel Prize in Literature. This man gave a speech in Fulton, Missouri, where he warned of an incoming "Iron Curtain" of Soviet influence. During World War II, this man was a leader of the Grand Alliance along with Joseph Stalin and Franklin Roosevelt. For 10 points, name this Prime Minister of the United Kingdom during World War II.

ANSWER: Winston Churchill

12. A character in this novel briefly serves as the intermediary for a being that “sometimes calls ITself the Happiest Sadist.” That character, who gave into influence of the man with red eyes, is the younger brother of Meg, Charles Wallace. Three characters in this book are revealed to be immortal beings who can travel across space with a tesseract, Mrs. Whatsit, Mrs. Who, and Mrs. Which. For 10 points, name this first novel of the Time Quintet by Madeleine L’Engle.

ANSWER: *A Wrinkle in Time*

13. This state is divided into boroughs instead of counties, with an Unorganized Borough making up about half of the state. This state’s Kenai peninsula is home to both glaciers and fossil fuel deposits. This state is home to an island chain that is in the northern Ring of Fire, the Aleutian Islands, which border Russian territory. For 10 points, name this state that is home to Denali, the highest peak in the United States, which is the largest state by area.

ANSWER: Alaska

14. Eight atoms of this element in a rhomboid cluster form this element’s “red” allotrope. A carboxylic acid contains one atom of this element double-bonded to carbon. After fluorine, this is the second most electronegative element. An allotrope of this element absorbs ultraviolet light in the atmosphere. That allotrope, ozone, is made up of three atoms of this element. For 10 points, identify this element with atomic number 8 and atomic symbol O.

ANSWER: oxygen

15. This instrument was invented to solve the problem of the clavichord being too quiet for performances. Domenico Scarlatti wrote 555 sonatas as one of the earliest composers for this instrument. Among its most famous players are Thelonious Monk and Franz Liszt. This instrument has three pedals and creates sound when a hammer hits corresponding strings. For 10 points, name this keyboard instrument which has 88 black and white keys.

ANSWER: pianoforte

16. Isis created a serpent to poison this god in order to force him to reveal his true name. This god tricked his daughter Sekhmet into drinking blood-colored beer, turning her into the gentle Hathor. This god’s nemesis lives just below the horizon and attacks the chariot of this god every night. This god fights against those attacks from the giant serpent Apep with help from Set. For 10 points, name this god worshiped at Heliopolis, the Egyptian god of the sun.

ANSWER: Ra or Re

17. This city was torched in protest of Governor William Berkeley during Bacon’s Rebellion. The growth of the tobacco industry was spurred by a man from here, John Rolfe, and came after the “Starving Time.” Men from this colony were taught to farm by John Smith, who believed himself to have been saved from the Powhatan tribe by Pocahontas. For 10 points, name this first permanent English settlement in the Americas, the original capital of the Virginia Colony.

ANSWER: Jamestown, Virginia

18. Conan O'Brien wrote one episode of this television show that sees a fight against spending settlement money on a monorail. Recurring characters on this show include the inept Dr. Nick Riviera and the obvious Arnold Schwarzenegger parody, actor Rainier Wolfcastle. This show has a yearly "Treehouse of Horror" episode around Halloween. For 10 points, name this animated sitcom whose title yellow family includes Bart.

ANSWER: *The Simpsons*

19. This poet wrote that "the Windows failed - and then I could not see to see," in one poem where this poet "heard a Fly buzz when" she "died." In another poem, this poet wrote that she "paused before a House that seemed A Swelling of the Ground" and "surmised the Horses' Heads Were toward Eternity" in a "Carriage" that "held but just Ourselves - And Immortality." For 10 points, name this author of "Because I could not stop for death," known as the "Belle of Amherst."

ANSWER: Emily Dickinson

20. In this organelle, cytochrome C is involved in transfers between Complexes III and IV and is also released during apoptosis. This organelle's matrix is enclosed by an inner membrane, which contains folds called cristae. Oxidative phosphorylation occurs at the end of the electron transport chain in this organelle, making it the main site of ATP production. For 10 points, name this "powerhouse" of the cell, the center of cellular respiration.

ANSWER: mitochondria [accept mitochondrion]

TB. This is the color of benches in the British House of Commons. The only national flag in the world that is a single color is this color. A political party named for this color nominated Jill Stein to run for president in 2012. This color also names a type of card that allows a foreigner to live permanently in the United States. For 10 points, name this secondary color which can be made by mixing blue and yellow pigments.

ANSWER: green

BONUSES

1. Most Chinese people today are of an ethnic group named after this dynasty. For 10 points each:

[10] Name this Chinese dynasty that followed the Qin Dynasty. This dynasty used the Silk Road to trade with the Roman Empire.

ANSWER: **Han Dynasty**

[10] One prominent Han invention was this type of sailing ship whose English name is derived from the Chinese word chuán.

ANSWER: **junk**

[10] Zhang Heng developed an early version of a seismometer used in Han China, which detected these natural disasters whose tremors were not always felt in the capital.

ANSWER: **earthquakes**

2. These organs are located on either side of the trachea and contain tiny sacs called alveoli. For 10 points each:

[10] Identify these organs that exchange oxygen and carbon dioxide.

ANSWER: **lungs**

[10] This slippery secretion protects the epithelial cells that line the respiratory and gastrointestinal systems.

ANSWER: **mucus** [accept **phlegm** or **snot**]

[10] In this genetic disorder, sticky mucus can build up in the lungs, causing breathing disorders, and it is also characterized by excessively salty sweat.

ANSWER: **cystic fibrosis**

3. This sequence is recursive, because finding one number involves adding the two terms that came before it. For 10 points each:

[10] Name this sequence of numbers, many of which can be found in nature as flower petal numbers or in tree branching patterns.

ANSWER: **Fibonacci** sequence

[10] As the sequence continues, dividing one term by the previous term approaches this ratio, common in architecture and known by a colorful name.

ANSWER: **golden ratio** [accept **phi** and similar answers involving golden numbers]

[10] COMPUTATION: If the first term in the sequence is 0 and the second is 1, give the seventh term in the sequence.

ANSWER: **8**

4. For 10 points each, name these United States territories:

[10] This Caribbean island territory with capital at San Juan is often considered the most likely to become the 51st state.

ANSWER: **Puerto Rico**

[10] This island group consists of Saint Croix, Saint John, and Saint Thomas, along with many minor islands. This island group is west of a British island group with a similar name.

ANSWER: **United States Virgin Islands** [or **American Virgin Islands** or **Virgin Islands of the United States**; prompt on **Virgin Islands**]

[10] This island is the largest island in Micronesia and the westernmost U.S. territory. It lies west of Hawaii in the Pacific Ocean.

ANSWER: **Guam**

5. During this person's research, he was strict about his procedures for gathering evidence leading his title as "father of scientific history." For ten points each:

[10] Name this Athenian historian and general who wrote about human nature in crises like plague, massacre, and civil war.

ANSWER: **Thucydides**

[10] Thucydides is probably more known for his account of this conflict between Athens and Sparta in the 5th century BC.

ANSWER: **Peloponnesian War**

[10] Part of the conflict in the war was over control of this island, now part of Italy. Mount Etna, an active volcano, lies on this Mediterranean island.

ANSWER: **Sicily**

6. Friends of this character include the depressed Eeyore and the timid Piglet. For 10 points each:

[10] Name this fictional anthropomorphic teddy bear who loves "hunny" and lives in the Hundred-Acre Wood.

ANSWER: **Winnie-the-Pooh** [accept **Pooh Bear**]

[10] This character in the Winnie-the-Pooh stories is organized and is sometimes bossy. This character calls many of the animals in the Hundred Acre Wood his "Friends-and-Relations."

ANSWER: **Rabbit**

[10] This author created the stories of Winnie-the-Pooh for his son Christopher Robin.

ANSWER: A(lan) A(lexander) **Milne**

7. When Izanagi washed his face, Amaterasu, Tsukuyomi, and Susanoo were born from him. For 10 points each.

[10] That myth originated from this indigenous Japanese faith.

ANSWER: **Shintoism**

[10] Amaterasu is the goddess of this object. Other deities of this object are Helios and Ra.

ANSWER: the **sun** [accept **sun god**]

[10] Torii gates are commonly found at the entrance of Shinto shrines, and are painted this bright color.

ANSWER: **vermillion** [accept **red** or **orange**]

8. For an object on the moon, this property is about one-sixth of what it would be on the Earth.
For 10 points each:

[10] Name this force that might be measured in pounds using a scale.

ANSWER: weight [do not accept mass]

[10] The reason objects weigh less on the moon is because the moon's value for this is smaller.
On Earth, this is about 9.8 meters per second squared.

ANSWER: gravity [accept gravitational **acceleration**]

[10] The inverse square law of gravity suggests that the gravitational force between two objects will decrease by this quantity squared as this quantity becomes larger.

ANSWER: the distance between the two objects

9. In this allegorical story, the workhorse Boxer's motto is "I will work harder." For 10 points each:

[10] Name this novella in which the pigs Snowball and Napoleon lead a takeover and declare, "All animals are equal."

ANSWER: *Animal Farm*

[10] This other dystopian novel by the author of *Animal Farm* sees the protagonist Winston Smith commit thoughtcrime against Big Brother. It is named for the year in which it is set.

ANSWER: *Nineteen Eighty-Four*

[10] This British author wrote *Animal Farm* and *Nineteen Eighty-Four*.

ANSWER: George Orwell

10. For 10 points each, answer these questions about some recent student activism.

[10] This university was the site of protests that were successful in removing its president, Tim Wolfe, and its chancellor, R. Bowen Loftin.

ANSWER: University of Missouri-Columbia [accept Mizzou; prompt on MU]

[10] This symbol was drawn on a wall with feces at Missouri, sparking action by students. It became known as a symbol of hatred against Jewish people in Nazi Germany.

ANSWER: swastika

[10] Chancellor Loftin was also under pressure after revoking refer-and-follow privileges for a doctor affiliated with this non-profit healthcare organization.

ANSWER: Planned Parenthood

11. For 10 points each, provide the answers to these questions that are also the titles of films or TV shows starring George Clooney.

[10] This book by Roald Dahl describes the title character's theft of livestock from the farmers Boggis, Bunce and Bean.

ANSWER: *Fantastic Mr. Fox*

[10] Julius Caesar was legendarily told to "beware" this date, roughly the middle of the month in which it occurs.

ANSWER: the Ides of March [prompt on partial answer]

[10] In English, an adjective is usually made *comparative* by adding this two-letter suffix to the end.

ANSWER: -er

12. This country occupies the smallest continent in the world. For 10 points each:

[10] Name this country which was claimed as a British colony by James Cook in 1770.

ANSWER: **Australia**

[10] Australia is home to indigenous people usually given this name. Many of them were removed and killed during the so-called Stolen Generation.

ANSWER: Australian **Aborigines** [or **Aboriginal Australians**]

[10] This large flightless bird features prominently in Aboriginal myth. An embarrassing moment in Australian history saw armed soldiers fail to curb the population of this bird.

ANSWER: **emu**

13. For 10 points each, name these types of poems:

[10] This type of poem is made of fourteen lines with a fixed rhyme scheme. William Shakespeare wrote many poems of this type.

ANSWER: **sonnet**

[10] This type of humorous poem consists of five lines with an A-A-B-B-A rhyme scheme. Many examples of this type of poem begin with the line, "There once was a man from Nantucket."

ANSWER: **limerick**

[10] This type of poem consists of seventeen syllables divided into three lines of five, seven, and five syllables, respectively. An example of this type by Basho details a frog jumping into water.

ANSWER: **haiku**

14. The lines "Give me your tired, your poor/Your huddled masses yearning to breathe free" are inscribed at the base of this statue. For 10 points each:

[10] Name this "New Colossus" located in the New York Harbor, next to Ellis Island.

ANSWER: the **Statue of Liberty**

[10] This French sculptor designed the Statue of Liberty.

ANSWER: Frederic Auguste **Bartholdi**

[10] Bartholdi also designed a namesake fountain located in this city. This city is also home to the National Gallery of Art and a large marble statue of a seated Abraham Lincoln.

ANSWER: **Washington, D.C.**

15. These cells consist of the cell body, dendrites, and axons. For 10 points each:

[10] Name these cells which make up the nervous system.

ANSWER: **neuron** [accept **nerve** cell]

[10] Neurons communicate with one another across these junctions. Neurotransmitters like dopamine travel across these junctions to send messages throughout the body.

ANSWER: **synapses**

[10] Donald Hebb proposed that repeated firing across synapses causes a strengthening of that pathway, perhaps helping to build this capability of the brain to store information.

ANSWER: **memory** [prompt on **learning**]

16. For 10 points each, answer these questions about the Seven Summits, the highest mountains on each continent:

[10] The peak of this mountain in the Himalayas is the highest point above sea level on Earth.

ANSWER: Mount **Everest**

[10] This mountain in the Andes contains the highest point in both the Western and Southern Hemispheres.

ANSWER: **Aconcagua**

[10] Mount Elbrus, a peak in the Caucasus mountains, is disputed as to which of these two continents it belongs to. Both answers required.

ANSWER: **Europe and Asia**

17. During this period many people called “forty-niners” moved to California in hopes of striking it rich. For 10 points each:

[10] Name this period of American history spurred by the discovery of a certain valuable substance.

ANSWER: California **Gold Rush**

[10] Gold was first found at this mill near Coloma, starting the California Gold Rush.

ANSWER: **Sutter’s Mill**

[10] After the California Gold Rush subsided, this silver deposit was discovered under Nevada’s Mount Davidson, starting a silver rush.

ANSWER: the **Comstock Lode**

18. In circuits, this quantity can come in direct or alternating types. For 10 points each:

[10] Identify this quantity, which is defined as the rate of flow of charge and is measured in amperes.

ANSWER: **current**

[10] In this type of circuit, there is only one path for current to flow from the source, through every component, and back to the source. It is contrasted with parallel circuits.

ANSWER: **series** circuit

[10] A lightbulb in a circuit is an example of this type of circuit component, which consumes power and limit the flow of current.

ANSWER: **resistor**

19. Not every number system uses the decimal digits 1 through 9. For 10 points each:

[10] This is the name of a base-2 number system. The only digits used are 1s and 0s.

ANSWER: **binary** numeral system

[10] COMPUTATION: Convert twelve in base-10 to binary.

ANSWER: **1100**

[10] COMPUTATION: Convert 10011 in binary to base-10.

ANSWER: **19**

20. This novel's protagonist lives in Cuba and talks about the "great DiMaggio" to "the boy" Manolin. For 10 points each:

[10] Name this novel which sees the title aging fisherman Santiago struggle to catch a giant marlin.

ANSWER: *The **Old Man and the Sea***

[10] This other novel by the same author details the love affair of Frederic Henry and Catherine Barkley during the Italian Campaign of World War I.

ANSWER: *A **Farewell to Arms***

[10] *The Old Man and the Sea* and *A Farewell to Arms* were both written by this celebrated American author of *The Sun Also Rises* and *For Whom the Bell Tolls*.

ANSWER: Ernest **Hemingway**

TB. For 10 points each, answer some questions about popular cartoons:

[10] This Nickelodeon cartoon is set in the underwater city of Bikini Bottom. One recurring character in this show is the squirrel Sandy Cheeks.

ANSWER: ***SpongeBob SquarePants*** [prompt on ***SpongeBob***]

[10] This classic Hanna-Barbera cartoon is set in Jellystone Park and details the picnic stealing exploits of the title bear and his sidekick Boo-Boo.

ANSWER: *The **Yogi Bear Show***

[10] This adult animated sitcom airs on Comedy Central and details the lives of Stan, Kyle, Kenny and Cartman in the title fictional Colorado town.

ANSWER: ***South Park***