

## Delta Burke 2014

Questions mostly by Chris Borglum, Billy Beyer, and Paul Kelson, with much-appreciated help from Jihye Shin, Ian Mackenzie, and Stan Jastrbezki.

### Round 1

1. French thinker Jacques Derrida critiqued Jacques Lacan's reading of this literary work in the essay "The Purveyor of Truth," arguing that the title object represents a castration of the king, since it may include evidence of the queen's affair. This short story's protagonist wears green glasses so he can examine Minister D-'s chamber to find the title object, which he sees hanging in a card rack in plain sight. The last of three tales featuring C. Auguste Dupin [*doo-PAN*], FTP what short story about a stolen missive is by Edgar Allan Poe?

ANSWER: "The Purloined Letter"

2. Among the members of the Irving-Williams series, an ion of this element forms the most stable complexes. The "blister" form of it is caused by solidified sulfur dioxide bubbles. This element's sulfate is found in Benedict's reagent and Fehling's solution. Yttrium, barium, oxygen, and this element make up a high-temperature superconductor. This element has the unexpected electron configuration of "[Argon] 3d-ten 4s-one." Chalcocite [*KAL-kuh-sahyt*] is an ore of this element, which is often used for electrical wires. For 10 points, name this metal found in bronze and brass.

ANSWER: copper [or Cu]

3. Two of this mythological figure's namesake animals appear on the Scorpion Macehead found at Nekhen. The Greeks associated this deity with Typhon, and he was often depicted in the front of Ra's boat fighting the serpent Apep. In contrast to his siblings' standard births, this deity ripped himself from the womb of his mother, Nut [*noot*]. One of this god's rivals tricked him into ingesting his semen by spreading it on lettuce that this deity ate. The oxyrhynchus fish was associated with him, as one of them ate the penis of his brother, whom this god cut into pieces. FTP name this husband of Nephthys and brother and enemy of Osiris.

ANSWER: Set

4. This number of people is on the boat *Gloucester* in a Winslow Homer painting. Unlike the Milan version, there are this many people in the London version of Caravaggio's *Supper at Emmaus*. The series *The Voyage of Life* by Thomas Cole contains this number of paintings. A picnic basket is on top of some discarded female clothing in the lower left of a painting with this number of figures, the same number as found in a painting that depicts a goddess standing on a shell. For 10 points, name this number of people depicted in Manet's *The Luncheon on the Grass* and Botticelli's *The Birth of Venus*.

ANSWER: four

5. A third-party candidate in the presidential election of this year said that Americans would hear a "giant sucking sound" of jobs leaving the US because of the North American Free Trade Agreement. That candidate's VP running mate, Admiral James Stockdale, was roundly mocked for asking "Who am I? What am I doing here?" The winning candidate of this race was mocked for saying that when he tried marijuana, he didn't inhale. The Republican incumbent in this election was hurt for agreeing to tax hikes after insisting in the previous election, "Read my lips: no new taxes." Ross Perot finished third in, FTP, what US presidential election year in which Bill Clinton defeated George H. W. Bush?

ANSWER: 1992

6. Philosophers such as Antony Flew and Michael Martin have contrasted the strong/hard form of this intellectual position with its weak/soft form. This position is described as “fallibilist” or “friendly” when one who holds it accepts that those who disagree can be justified in their own beliefs. Sam Harris is an exemplar of this position’s so-called “New” form, which aggressively counters the beliefs of those who oppose it. A U.S. military chaplain is thought to have first said this position does not exist in foxholes. FTP, what dogma takes its name from the Greek for “without God”?

ANSWER: Atheism (accept apatheism)

7. This man is the first namesake of a law that states the bending moment equals the product of Young's modulus, moment of inertia, and curvature. Fermat's little theorem is a special case of a function named for this man that gives the number of positive integers that are less than or equal to and relatively prime to a given number. The formula vertices minus edges plus faces is named for this man, who also names the identity  $e$  raised to the product of  $i$  and  $\pi$ , plus one, is equal to zero. For 10 points, name this mathematician who solved the Seven Bridges of Königsberg problem.

ANSWER: Leonhard Euler [*OI-ler*]

8. This language is used to tell the story of an unnamed rich man who dies on the island of Capri while touring Europe in “The Gentleman from San Francisco.” Another story in this language sees a young Jewish officer kill the title bird to earn the respect of some rough soldiers. A lecherous banker on vacation is transformed by Anna, a woman who has a pet dog in a story in this language by the author of the story “The Steppe.” “My First Goose” is a story by Isaac Babel collected in *Red Cavalry* written in this language. FTP, Anton Chekhov wrote plays like *The Seagull* and *Uncle Vanya* in what language?

ANSWER: Russian

9. One early set of these items bears the inscription, “I am the badge of Phanes.” Those examples were made of electrum, while in the mid-6<sup>th</sup> century BCE the first bimetallic examples were produced, depicting the head of a lion and of a bull, for Croesus of Lydia. The shaving of these items led Thomas Gresham to his namesake formulation that bad money drives out good from circulation. FTP what items are collected by numismatists and include the penny and dime?

ANSWER: coins

10. The protagonists of this TV show fail in their efforts to imitate a horse who brings joy by balancing on a beach ball and repeating his own name, James Baxter. The rhyming avian named Choose Goose sells items like the Glasses of Nerdicon on this show. The small, green elephant Tree Trunks once saved the life of the Earl of Lemongrab on this show. The prime antagonist of the heroes on this show was originally a man named Simon Petrikov, but after the Mushroom War he began wearing a magic crown that made him the Ice King. FTP what Cartoon Network show set in the Land of Ooo features Finn the Human and Jake the Dog?

ANSWER: Adventure Time

11. In the philosophical method named for this concept, qualia are described as events experienced in this entity. The stance known as monism argues that this entity is not differentiated from its material counterpart. Roger Penrose argues for further comprehension in quantum physics before attempting to construct an artificial one of these in a book titled after *The Emperor’s New* one of these. Cognition is an essential function of, FTP, what philosophical concept which in dualism is contrasted with “body.”

ANSWER: mind

12. The novel *Almost Transparent Blue* describes the fast life of teens experimenting with sex and drugs in the Fussa neighborhood of this metropolis outside its American military base. A bank's collection officer is recruited by a giant amphibian in this city to fight a worm which will cause a deadly earthquake. The author of that story about a "super frog" which saves this city also wrote a non-fiction work titled *Underground* examining the effects of Sarin gas attacks on its subway. FTP what Asian city has appeared in many works by Haruki Murakami?

ANSWER: Tokyo

13. The northeasternmost point in this national park offers a river crossing named for John Doyle Lee, the only man executed for participating in the Mountain Meadows Massacre. A 1956 mid-air crash of two passenger airliners killed 128 people, at the time the deadliest air disaster, dropping debris into this national park. The Kolb brothers built a studio for photographing tourists on the Bright Angel Trail in this park in 1904 on its South Rim. The Kaibab Plateau is cut by the Colorado River in, FTP, what national park comprising a huge fissure in northern Arizona?

ANSWER: Grand Canyon National Park

14. The detection of "balls" made of only these particles will be the focus of the PANDA experiment. A three-jet event at PETRA was the first experimental evidence of these particles. Shortly after the Big Bang, the universe was filled with a "plasma" consisting of quarks and them. Along with photons, these particles have zero mass. There are eight different types of these gauge bosons, which mediate the strong force. For 10 points, name these particles that "bind" quarks.

ANSWER: gluons

15. This man's brother is the actual composer of most of Mozart's thirty-seventh symphony. In the finale of an F-sharp minor symphony by this man, the tempo switches from presto to adagio, and one orchestral section after another gets up and leaves. This man composed around 170 works for the baryton, which was the favorite instrument of Prince Esterhazy, his employer. The second movement of another symphony by this man begins with the violins playing the pizzicato eighth notes C-C-E-E-G-G followed by a quarter note E, and takes its name from a sudden fortissimo chord. For 10 points, name this Austrian composer of the *Farewell* and *Surprise* symphonies.

ANSWER: (Franz) Joseph Haydn

16. This action is the subject of John Greenleaf Whittier's 1833 work *Justice and Expediency*. The New York Manumission Society, led by John Jay, had this change as its goal. Josiah Wedgwood crafted medallions pushing for it with the slogan "Am I Not a Man And a Brother?" Illinois printer Elijah Lovejoy was killed by a mob for supporting this action. FTP, what is this social stance advocated by Henry Ward Beecher and John Brown, which was codified in law by the Emancipation Proclamation and the Constitution's 14<sup>th</sup> Amendment?

ANSWER: Abolition of slavery (accept reasonable synonyms for "abolition," like "elimination"--at least in Orlando)

17. This system became more fixed when the so-called "gates of ijtihad" were "closed" in the tenth century CE. Hanbali and Hanafi are schools of "fiqh" under the larger aegis of this system, the latter of which emphasizes istihsan, or discretion, more than other schools. Kemal Ataturk banned the application of this system in Turkey, but it has been applied in 11 states in Nigeria since 2000 and remains the basis for the court system in Saudi Arabia. FTP what is this Islamic legal code?

ANSWER: Sharia

18. John Irving's novel about Siggy and Graf's naïve plan to release all the creatures from the Vienna Zoo is named for *Setting Free* [these animals]. Win Berry buys one of these animals called State O'Maine in Irving's novel *The Hotel New Hampshire*. Ike McCaslin watches Boon Hogganbeck kill one of these animals with a knife in a story titled for this animal that appears as the antepenultimate work in Faulkner's *Go Down, Moses*. FTP what type of animal is represented by Baloo in *The Jungle Book* and the children's novel character *Gentle Ben*?

ANSWER: bears

19. Abnormalities in serum albumin concentration and prothrombin time imply damage to this organ. Vitamin A is stored in Ito cells in this organ, which is where lactate is moved to in the Cori cycle. This organ is attached to the abdominal wall by the falciform ligament, and has macrophages called Kupffer cells. Blood is supplied by the portal vein to this organ, which stores glycogen and secretes bile. For 10 points, name this organ in which excessive alcohol can cause cirrhosis.

ANSWER: liver

20. This ruler dealt with a Saxon revolt under Widukind, and this man defeated his former father-in-law Desiderius at the Siege of Pavia. This man began the tradition of governing his kingdom by using *missi dominici*. He employed scholars like Alcuin [*AL-kwin*] of York and the historian Einhard at his capital of Aachen [*AH-kuhn*]. This ruler's empire was split between Lothair I and Charles the Bald by the Treaty of Verdun, after the death of his son Louis the Pious. Leo III crowned this son of Pepin the Short on Christmas Day. FTP, name this Frankish king who was named Holy Roman Emperor in 800.

ANSWER: Charlemagne

Delta Burke 2014  
Round 1 Bonuses

1. In one story from this collection, German spy Yu Tsun sends a message to his superiors by killing Dr. Albert. FTPE:

[10] Name this somewhat generically named short story collection, which includes the aforementioned "The Garden of Forking Paths," and "Tlon, Uqbar, Orbis Tertius."

ANSWER: Ficciones

[10] *Ficciones* was written by this blind Argentinian, whose story "The Aleph" tells of Carlos Daneri's attempt to write a poem using an object that shows every point in the universe.

ANSWER: Jorge Luis Borges

[10] In another story from the Borges collection *Ficciones*, every permutation of every book ever written is located in "The Library of" this place. In the Book of Genesis, a city with this name was home to a tower that was intended to reach Heaven, but was unfinished due to language issues.

ANSWER: Babel

2. Answer some questions about Mesopotamian myth FTPE:

[10] In *The Epic of Gilgamesh*, the title hero befriends this wild man of the forest, who helps him defeat Humbaba.

ANSWER: Enkidu

[10] After Enkidu's death, Gilgamesh seeks Utnapishtim [*oot-nuh-PISH-tim*] in a bid to learn the secret to eternal life. Utnapishtim was granted immortality after surviving this kind of event.

ANSWER: flood

[10] Another flood story appears in the Akkadian epic *Atra-Hasis*. Like the tale of Gilgamesh, it was

written in this triangular Sumerian script.

ANSWER: cuneiform

3. The 1883 *Pace v. Alabama* decision upheld bans on this practice, bans which mostly existed in the South. FTPE:

[10] Bans on what practice were ruled unconstitutional by the Supreme Court in the 1967 *Loving* decision?

ANSWER: interracial marriage [or miscegenation]

[10] Richard and Mildred Loving's marriage was challenged by officials in what US state?

ANSWER: Virginia

[10] The primary opinion in the *Loving* decision was written by this Chief Justice, who had earlier presided over the 1954 *Brown* decision.

ANSWER: Earl Warren

4. PPD made from the cell wall of its causative agent is used in the Mantoux skin test. FTPE:

[10] Name this disease that often affects the lungs and results in a bloody cough.

ANSWER: tuberculosis [or TB; or consumption; or phthisis]

[10] Tuberculosis, leprosy, and a real condition that presumably affects Chris Borglum, hot tub lung, are all caused by the rod-shaped members of this bacterial genus.

ANSWER: Mycobacterium [or mycobacteria]

[10] Approximately a third of the cases of leprosy in the United States are from contact with these animals, which have a pointy snout as well as bodies mostly covered with bony plates.

ANSWER: armadillos

5. This composer "Lives Upstairs" from a young boy named Christopher in 1992 movie. FTPE:

[10] Name this composer whose works for piano that appear in that film include six variations on the aria "Nel cor piu non mi sento" and a rondo nicknamed "Rage Over a Lost Penny."

ANSWER: Ludwig van Beethoven

[10] Gary Oldman portrayed Ludwig van Beethoven in this 1994 film, in which Anton Schindler attempts to determine the addressee of a Beethoven love letter.

ANSWER: Immortal Beloved

[10] Anton Schindler believed the "Immortal Beloved" letter was written to Giulietta Guicciardi, who was the dedicatee of this Beethoven piano sonata in C-sharp minor, whose slow first movement begins with whole notes in the left hand and eighth note triplets in the right hand.

ANSWER: Moonlight Sonata [or Piano Sonata No. 14; or Opus 27, Number 2]

6. During this event, the Four Questions are asked and this event ends with the declaration of "Next year in Jerusalem!" FTPE:

[10] Name this ritual feast during which families read from the Haggadah [*huh-GAH-duh*], which tells the story of the Israelite exodus from Egypt.

ANSWER: the Passover Seder (do NOT accept just "Passover")

[10] Part of the Seder focuses around the hiding of the *afikoman*, which is a piece of this type of unleavened bread that Jews traditionally eat during Passover.

ANSWER: matzo bread (or matzah, matzot, matzus)

[10] Near the end of the Passover, many families open their door in the hope that this prophet will visit, foreshadowing his arrival to announce the coming of the Messiah as promised in Malachi 4.

ANSWER: Elijah

7. This man lends his name to a term meaning to reduce the magnetic field of a CRT monitor. FTPE:

[10] Name this physicist whose namesake law, one of Maxwell's equations, states that the net flux through a closed surface equals the charge inside divided by the permittivity of free space.

ANSWER: Carl Friedrich Gauss

[10] You have ten seconds for the following bonus part. A spherical Gaussian surface with a radius of ten meters that is located inside of a conductor has this value for its enclosed charge.

ANSWER: zero

[10] In the cgs system, the magnetic field is measured in units named for Gauss, but in SI units, this man's the namesake. The use of alternating current was promoted by Westinghouse and him.

ANSWER: Nikola Tesla

8. This novel is presented mostly as a story told by the protagonist, Janie, to her friend Pheoby in Eatonville, Florida. FTPE:

[10] What novel recounts Janie's marriages to Logan Killicks and Joe Clark and her experience in a hurricane near Lake Okeechobee?

ANSWER: Their Eyes Were Watching God

[10] This last lover of Janie's dies from rabies he contracts rescuing her during the hurricane.

ANSWER: Tea Cake

[10] *Their Eyes Were Watching God* is the best known novel of this author of *Seraph on the Sewanee* and *Jonah's Gourd Vine*.

ANSWER: Zora Neale Hurston

9. The Pinnacles are striking limestone formations in Nambung National Park in this state. FTPE:

[10] What largest state of Australia also includes the city of Fremantle?

ANSWER: Western Australia

[10] The Eyre Highway crosses the desolate Nullarbor Plain and has its western end at this capital and largest city of Western Australia.

ANSWER: Perth

[10] Perth sits on this ocean separating Australia from the eastern coast of Africa and the southern coast of a namesake country.

ANSWER: Indian Ocean

10. The first and second Battles of Bedriacum were fought during this period, and one ruler during this period tried to solve the national debt by killing people who had named him as their heir. FTPE:

[10] Name this period following the death of Nero, during which Galba, Otho, and Vitellius consecutively ruled Rome.

ANSWER: the Year of the Four Emperors (or 69 A.D.)

[10] The Year of the Four Emperors gave way to the rule of this founder of the Flavian Dynasty. This man who had earlier put down the Great Jewish Revolt began construction on the Colosseum during his time as Emperor.

ANSWER: Vespasianus

[10] Nero's rule was ultimately undermined by Galba's crushing of the revolt of Vindex, which took place in this region. Vercingetorix led an earlier revolt in this region.

ANSWER: Gaul

11. Hegel divided this entity into thesis, antithesis, and synthesis, and formulated the master-slave type of this structure. FTPE:

[10] Name this philosophical method that attempts to discover truth by examining an argument between two conflicting points of view.

ANSWER: dialectic

[10] *The Dialectic of Enlightenment* was written by Theodor Adorno and this man, whose *The Eclipse of Reason* investigates the “Conflicting Panaceas” of the Nazi agenda.

ANSWER: Max Horkheimer

[10] This French philosopher wrote a *Critique of Dialectical Reason*. He also discussed the idea of “bad faith” in his *Being and Nothingness*.

ANSWER: Jean-Paul Sartre

12. Answer the following about heavy water, for 10 points each.

[10] Heavy water is water in which the hydrogen atoms have been replaced by atoms of this isotope of hydrogen, which has one proton and one neutron in its nucleus.

ANSWER: deuterium

[10] This scientist was the first to prepare heavy water using electrolysis. This scientist also names a theory in which acids are electron-pair acceptors and bases are electron-pair donors.

ANSWER: Gilbert Newton Lewis

[10] Operation Gunnerside during World War II destroyed a heavy water plant in this country that could have been used by Nazi Germany to make an atomic bomb.

ANSWER: Norway

13. The title animal of this poem is asked “what shoulder, and what art/Could twist the sinews of thy heart?” FTPE:

[10] What animal is described as “burning bright/In the forest of the night” in a poem by William Blake?

ANSWER: “The Tyger”

[10] “The Tyger” is a counterpart to this other Blake animal poem from *Songs of Innocence*; the gentle title creature is emblematic of Christ.

ANSWER: “The Lamb”

[10] This two-word phrase ends “The Tyger’s” first and last stanzas and names a work of Blake criticism by Northrop Frye; the speaker wonders what “immortal hand or eye” could frame it.

ANSWER: “fearful symmetry”

14. Sigmund Freud’s daughter Anna posited that these strategies were born of anxiety. FTPE:

[10] What name is given to mental processes, like reaction formation or repression, meant to protect one’s ego?

ANSWER: defense mechanisms

[10] This defense mechanism is characterized by displacing negative feelings onto others.

ANSWER: projection

[10] Sigmund Freud thought this defense mechanism, in which the desire for sex is redirected into creative channels like art or science, was indicative of modern civilizations.

ANSWER: sublimation

15. This country’s Princess Isabel helped to pass its Golden Law, which abolished slavery here. FTPE:

[10] Name this country that fought alongside Argentina and Uruguay during the War of the Triple Alliance, and had earlier been claimed by Portugal under the Treaty of Tordesillas.

ANSWER: Brazil

[10] Brazil was ruled under the House of Braganza by two emperors with this name. The explorer who discovered Brazil also had this first name.

ANSWER: Pedro (accept Pedro I, Pedro II, or Pedro Cabral, don’t take “Peter”)

[10] Brazil was ruled in the ‘30s and ‘40s under the “coffee and milk” policies of this dictator’s

Estado Novo.

ANSWER: Getulio Vargas

16. While this man was held captive, his father Robert grew a beard and studied Islam. FTPE:

[10] Name this POW who was swapped for five Taliban commanders in May of 2014.

ANSWER: Bowe Bergdahl

[10] Bowe Bergdahl was a prisoner-of-war in this country, whose president is Hamid Karzai.

ANSWER: Afghanistan

[10] The five Taliban commanders must spend a year in this Arab country before returning home. This country was controversially selected to host the 2022 FIFA World Cup.

ANSWER: Qatar

17. A king sits on a toilet-throne and is fed bags of gold that are excreted in the form of bribes to his supporters in this man's work *Gargantua*, which resulted in him serving six months in jail. FTPE:

[10] Name this Frenchman who enjoyed depicting the head of King Louis Philippe as a pear.

ANSWER: Honore [aw-naw-REY] Daumier [doh-MYEH]

[10] Daumier may be best known for this painting that depicts a mother breastfeeding, an elderly woman holding a basket in her lap, and a sleeping boy on the titular mode of transportation.

ANSWER: *The* Third-Class Carriage [or *Un wagon de troisieme classe*]

[10] Another caricature by Daumier shows Nadar in a balloon "elevating" this medium to art.

Matthew Brady is famous for depicting numerous scenes of the US Civil War using this medium.

ANSWER: photography [accept word forms]

18. Deep Field and eXtreme Deep Field are images from an object named for this man. FTPE:

[10] Name this American astronomer whose namesake law contains a namesake constant currently equal to approximately seventy kilometers per second per megaparsec.

ANSWER: Edwin Hubble

[10] Edwin Hubble's tuning fork diagram classifies these objects into elliptical, barred spiral, and spiral types, the latter two of which are arranged by the size of their bulge.

ANSWER: galaxies

[10] This man's namesake "sextet" actually consists of four galaxies in the process of colliding. This man also names a class of galaxies that contain radio-quiet AGN, or active galactic nuclei.

ANSWER: Carl Keenan Seyfert

19. This poet's injunction to "make it new" was likely cribbed from its inscription on a washbasin by the first Shang Dynasty emperor. FTPE:

[10] What author of *The Cantos* helped T.S. Eliot edit "The Waste Land" before becoming a Fascist loon?

ANSWER: Ezra Pound

[10] Pound's "Make It New" became an unofficial motto of this literary movement characterized by a focus on inner states of consciousness and emphasis on high art.

ANSWER: Modernism

[10] Pound's "River Merchant's Wife: A Letter" was based on a work by this Chinese poet known for works about Chris Borlum's favorite hobby, drinking.

ANSWER: Li Po

20. As of 1858, this man was considered the favorite for the 1860 presidential nomination. FTPE:

[10] What senator won re-election from Illinois, defeating Abraham Lincoln after a series of debates?



ANSWER: Stephen Douglas

[10] Douglas espoused the view that residents of new US territories should hold votes to determine whether slavery should exist there, a view known by this two-word term.

ANSWER: popular sovereignty

[10] Douglas's efforts to reconcile popular sovereignty with the Dred Scott decision were given this name from the Illinois town where he espoused that doctrine in a debate with Lincoln.

ANSWER: Freeport Doctrine