

Delta Burke 2014  
Round 7

1. This artist painted a work while in self-exile which is set among the clouds and depicts Cupid removing the footwear of a god of war. Another painting by this man depicts the founder of the Roman Republic brooding while officers carry in his dead sons on stretchers. This French artist also painted a work in which a philosopher points his left index finger in the air before drinking hemlock. Another painting by this artist depicts a Charlotte Corday murder victim in his bathtub. For 10 points, name this French artist of *The Death of Socrates* and *The Death of Marat*.

ANSWER: Jacques-Louis David

2. This scientist predicted the critical temperature of helium using his law of corresponding states. The isotherms predicted by an equation named for him were modified by Maxwell's equal area rule. That equation named for this man uses the parameters "a" and "b" to correct for molecular size and molecular interactions. London dispersion forces and dipole-dipole interactions are types of his namesake forces. For 10 points, name this Dutch scientist, the namesake of a modification of the ideal gas law as well as some weak forces that contribute to intermolecular bonding.

ANSWER: Johannes Diderik van der Waals

3. One account from a Paris College attributed this occurrence to the conjunction of Saturn, Jupiter, and Mars. This event's beginning was eventually traced to an attack Mongols made against the Italian trading city of Caffa, and this event claimed the life of Alfonso XI of Castile during the Siege of Gibraltar. The Brotherhood of Flagellants rose to prominence during this period. This event was caused by stowaway rats carrying the *Yersinia pestis* bacterium. FTP, name this disease that killed over a third of the population of Europe in the 14<sup>th</sup> century.

ANSWER: the Bubonic Plague (accept Black Plague or Black Death)

4. In a 1926 work by this author, a Greek mask is worn first by Dion and later Billy as both live with Margaret. Another play by this author of *The Great God Brown* that uses masks is 1928's story of Nina Leeds, *Strange Interlude*. His autobiographical play set in August, 1912, takes place in real time and sees Edmund tell his mother, Mary, a morphine addict, that he has tuberculosis. The story of the Tyrone family is told in *Long Day's Journey into Night*, FTP, by what American playwright who also wrote *The Iceman Cometh*?

ANSWER: Eugene O'Neill

5. Practitioners of this religion are sometimes called "servants of the spirits" and its name appears to have been first recorded in 1658's *Doctrina Christiana*, a document sent back to King Philip II of Spain describing it. In this faith the soul is split into two parts, known as the big and little "good angel". Adherents pay fealty to figures like the rain spirit Simbi and a set of twins called The Marasa, who are the offspring of this religion's chief – and unreachable – deity, the Bondye. FTP, loa are propitiated in what religion also featuring Papa Legba, a faith originating in Haiti?

ANSWER: Voodoo (or Vodou or Vodun or Vodoun)

6. One instance of this activity was banned for four years after the 1894 incident known as the bloodbath at Hampden Park. Texas governor Bill Clements was caught up in a scandal regarding the use of a slush fund to pay people who engaged in this activity at SMU in the late 1970s and 1980s, leading to SMU getting the so-called "death penalty." In 2009, a House subcommittee passed a bill to force a playoff into this activity, which helped lead to the end of the Bowl Championship Series. FTP what sport's national title game featured a win by Florida State over Auburn in January?

ANSWER: college football

7. Lamé [*la-MEY*] curves in which  $n$  is greater than two are known as the super type of these figures. A device called the trammel of Archimedes is used to draw them. A type of cryptography is named for curves of this figure, which have the equation  $y^2 = x^3 + ax + b$ . Those curves named for this figure are modular according to the Taniyama–Shimura conjecture. The sum of the distances of any point on this figure from its two foci is constant. For 10 points, name this conic section that has an eccentricity of less than one and resembles an elongated circle.

ANSWER: ellipse [prompt on "oval"]

8. This river is the namesake of a group of ethnic Germans whom Catherine the Great invited to settle along its banks in the late 1700s. A famous song beginning “Eh, ukhnyem!” is named for boatmen who pulled barges on this river. Flowing through Nizhny Novgorod and Samara, this river’s canal to the Don provides the most direct connection between the Sea of Azov (AH-soff) and the world’s largest lake. FTP, name this river which drains most of western Russia into the Caspian Sea, the longest river in Europe river and the namesake of a city once called Stalingrad.

ANSWER: Volga River

9. A novella by this author describes the murder of the second title character, the hypnotist Cipolla, by the first title character. This author of *Mario and the Magician* reworked the Faust legend in the story of a composer, Adrian Leverkühn, who purposely contracts syphilis in his novel *Doktor Faustus*. The protagonist of a long novel by this author is attracted to the x-ray of Clavdia Chauchat while he is with his cousin Joachim Ziemssen at a sanatorium in Switzerland. FTP what German wrote novels like *The Magic Mountain* and *Death in Venice*?

ANSWER: Thomas Mann

10. Robert Joffrey reconstructed the scenic designs and choreography of this work, for which Nicholas Roerich originally designed the set and costumes. In this work’s second section, the lower strings play repeating F-flat major eighth note chords with irregular accents at the same time that the upper strings play E-flat dominant seventh chords. This work opens with a high bassoon solo and provoked a riot at its 1913 premiere. For 10 points, name this ballet depicting “Pagan Russia” that was choreographed by Vaslav Nijinsky and composed by Igor Stravinsky.

ANSWER: *The Rite of Spring* [or *Le Sacre du printemps*; or *Vesna svyashchennaya*]

11. This quantity is the x-axis of the Fletcher-Munson curves and the eponymous Bode plot. Reginald Fessenden invented a method of creating new values of this quantity called heterodyning. For an LC circuit, a form of this quantity is proportional to one over the square root of the product of inductance and capacitance. For a pendulum, a form of it is proportional to the square root of  $g$  divided by length. The energy of a photon equals the product of this quantity and the Planck constant, and an observer perceives a shift in this quantity in the Doppler effect. For 10 points, name this quantity that has an inverse relationship to wavelength, and is often measured in Hertz.

ANSWER: frequency [accept specific types]

12. In one Homeric hymn, this deity is described with the epithet “Delphinus,” suggesting his affinity with one of his sacred animals, the dolphin. This deity’s offspring include Aristaeus, god of husbandry and bee-keeping, and Asclepius, god of healing. He was syncretized with another deity of a certain celestial body, earning him the titles “Phoebus” and “Helios.” With his sister, he killed the children of Niobe for daring to insult their mother. Son of Zeus and Leto, FTP, who is this Olympian patron of the arts and the sun, twin brother of Artemis?

Answer: Apollo

13. This man told Lester Pearson, “Don’t you come into my living room and piss on my rug,” after Pearson gave a speech at Temple University. He told a joint session of Congress, “I have not the slightest doubt what will be your answer,” in his speech titled “The American Promise.” This president, who appointed Thurgood Marshall to the Supreme Court, gave a speech at the University of Michigan in which he presented goals for social reform that included creating Project Head Start and Medicare as part of his “Great Society” program. This man signed the Civil Rights Act into law. For 10 points, name this man who became president after the assassination of John F. Kennedy.

ANSWER: Lyndon Baines Johnson (or LBJ)

14. In the movie *Wreck It Ralph*, this actress voiced Taffyta Muttonfudge, who pushes Vanellope into a puddle of mud. In the movie *This Is the End*, she declares “If I don’t fuck Michael Cera tonight, I’m going to blow my brains out.” On a current FOX show, she plays a doctor who moved to Haiti with her Christian minister boyfriend. On a former NBC show, she played a Dunder Mifflin employee who dates Ryan Howard and hosts a Diwali party. For 10 points, name this comedian who played Kelly Kapoor on *The Office* and who stars on *The Mindy Project*.

ANSWER: Mindy Kaling [or Vera Chokalingam]

15. The poet Philip Larkin ironically advised the reader to “get stewed” rather than use these items, which he said “are a load of crap.” Another work called these items “the lifeblood of a master spirit” before noting that he “who destroys a good” one of these items “kills reason itself.” Anne Bradstreet apostrophized one of these as “thou ill-formed offspring of my feeble brain” after her brother-in-law had one created from her poems without her permission. FTP what are these items, a fictional one of which was *The Necronomicon*, supposedly written by Abdul Al-Hazred?

ANSWER: books

16. The d’Hondt rule and Largest Remainder formulas are methods for computing the results of these actions under the list system, which is common in Western Europe. One common interpretation of Arrow’s Impossibility Theorem is that no system of this process can be completely fair; for instance, the first-past-the-post type of this process does not ensure the winner would defeat all others in a head-to-head choice. When this process is used for an issue in the US, it is often called a “referendum.” FTP a plebiscite is the most prominent US version of what process used to make public choices, like choosing the president?

ANSWER: election (accept voting, I suppose)

17. The product Zyderm is an injectable liquid bovine form of this protein. A defect in the gene for this protein can cause Ehlers–Danlos syndrome. Almost every third amino acid of this protein is glycine, and it also contains the uncommon amino acid hydroxyproline. Vitamin C is involved in the synthesis of this triple helical protein, whose cross-linking is performed by the enzyme lysyl oxidase. This most abundant protein in the human body can be hydrolyzed to make gelatin. For 10 points, name this protein found in bone, cartilage, tendons, and other connective tissue.

ANSWER: collagen

18. One philosopher from this country collected three 1970 lectures criticizing the “descriptivist” theories of Frege, Russell, and Wittgenstein in the book *Naming and Necessity*. Another philosopher from this country critiqued the over-dependence on the representation of perception in his masterwork, *Philosophy and the Mirror of Nature*. Saul Kripke and Richard Rorty are countrymen of a philosopher from this nation who considered the sentence “Everything green is extended” in a long essay attacking two core ideas of the Logical Positivists. FTP, what country is home to the author of “Two Dogmas of Empiricism,” W.V. O. Quine, as well as the school of Transcendentalism and Ralph Waldo Emerson?

ANSWER: United States or America

19. This poet described how the “dancers go round, they go round/and around” to the “tweedle of bagpipes” in his poem on a Breughel painting, “The Kermess.” This poet’s desire to focus poetry on the concrete is embodied in his line “No ideas but in things” in a long poem named for his hometown. Another poem describes as “so sweet/and so cold” the plums his addressee was saving for breakfast. FTP name this author of “Paterson” who wrote that “so much depends/upon/a red wheel/barrow.”

ANSWER: William Carlos Williams

20. One side in this war made use of a raiding tactic earlier utilized by the Spanish that was known as the *chevauchée*. The blind John of Bohemia died at one battle in this war. This war, whose history is detailed in Jean Froissart’s *Chronicles*, began with a naval battle at Sluys. One ruler during this war refused to send reserves to one of his generals because he wanted him to “win his spurs.” During this war, Edward the Black Prince won the Battle of Crecy. A later battle in this war was fought on muddy terrain that catastrophically slowed Charles D’Albert’s cavalry. Including Henry V’s victory at Agincourt, FTP, name this war fought between France and England that lasted from 1137 to 1453.

ANSWER: Hundred Years’ War

Delta Burke 2014  
Round 7 Bonuses

1. A fundamental accounting identity states that this quantity equals physical investment. FTPE:

[10] What is this quantity equal to income minus consumption?

ANSWER: saving (accept "savings" in Orlando; up to TD's elsewhere)

[10] This 20<sup>th</sup>-century economist used the "paradox of thrift" to warn against too much saving during a recession; he wrote *The General Theory of Employment, Interest and Money*.

ANSWER: John Maynard Keynes

[10] Unsurprisingly, this author of *The Road to Serfdom* disagreed with Keynes's interpretation of the "paradox of thrift."

ANSWER: Friedrich Hayek

2. It was composed as a thank you to the University of Breslau after its composer received an honorary degree, and it contains a version of "Gaudeamus igitur," along with three other student songs. FTPE:

[10] Name this work by Johannes Brahms composed the same summer as the *Tragic Overture*.

ANSWER: Academic Festival Overture [or Akademische Festouvertüre; or Opus 80]

[10] Brahms composed one of these works in the German language after the death of his mother. One of these works by Mozart was finished after his death by Franz Xaver Sussmayr.

ANSWER: requiems

[10] Brahms composed this number of symphonies, the last of which contains 32 variations on a Bach cantata. The term subdominant and the solfege syllable "fa" refer to this scale degree.

ANSWER: four

3. Two-thirds of these administrative areas are governed by bodies called "police juries." FTPE:

[10] What are these political units into which Louisiana is divided, similar to counties?

ANSWER: parishes

[10] This home of Louisiana State University is located in a near-namesake parish; this city's name is preceded by the adjective "East" in the parish name.

ANSWER: Baton Rouge

[10] Near Louisiana's geographical center is this parish with seat at Ville Platte, named after the title figure of Longfellow's poem about the Acadian migration south.

ANSWER: Evangeline Parish

4. Types of this device include helium/neon and argon-ion. For 10 points each:

[10] Name this device that produces a coherent beam of light as a result of stimulated emission.

ANSWER: laser [or light amplification by stimulated emission of radiation]

[10] The operation of a laser requires this two-word condition, in which there are more electrons that are excited and in a higher energy state than in a lower energy state.

ANSWER: population inversion

[10] This type of laser, invented by Sorokin and Lankard, can treat port-wine stains, which are purple birthmarks on the face. This type of laser can use Rhodamine 6G as the gain medium.

ANSWER: dye laser

5. She's not Taylor Swift, but like her wears a belt of dismembered arms and a necklace of skulls. FTPE:  
[10] What Hindu goddess is often depicted standing on her consort, Shiva?

ANSWER: Kali

[10] Shiva is a member of this trio of Hindu gods, along with Brahma and Vishnu.

ANSWER: Trimurti

[10] The serpent Vasuki, who lives on Shiva's neck, was used as a rope during the churning of an ocean of this substance in Hindu myth.

ANSWER: milk

6. This character is not referred to by name in the last novel in which he appears, *The Prairie*. FTPE:

[10] What protagonist of five novels is the companion of Chingachgook, as depicted in *The Last of the Mohicans*?

ANSWER: Natty Bumppo (accept either)

[10] Natty Bumppo is the central figure in this five-novel series by James Fenimore Cooper.

ANSWER: The Leatherstocking Tales

[10] The Leatherstocking Tales are primarily set in this state, where Cooper's father established Cooperstown.

ANSWER: New York

7. It names a very powerful earthquake that struck Alaska in 1964 as well as an agreement ratified in 1998 that established a power-sharing assembly in Northern Ireland. For 10 points each:

[10] Name this holy day that commemorates the death of Jesus and follows Maundy Thursday.

ANSWER: Good Friday

[10] This thirty year period of sectarian conflict in Northern Ireland began with a civil rights march in Londonderry and was ended by the Good Friday Agreement in 1998.

ANSWER: The Troubles [or Na Trioblóidí]

[10] Events during this man's premiership included the Good Friday Agreement and the creation of a national minimum wage. This man served as PM in between John Major and Gordon Brown.

ANSWER: Tony Blair

8. Answer the following about birds, for 10 points each.

[10] This man's namesake society includes a great egret in its logo. He included drawings in his book *The Birds of America*, which was first published in 1827.

ANSWER: John James Audubon

[10] Birds and some other animals possess this terminal chamber of the GI, urinary, and reproductive systems. Insemination in some birds is referred to as its namesake "kiss."

ANSWER: cloaca

[10] Hermann von Meyer coined this primitive bird's name, which means "ancient wing." Like a dinosaur, it had a long tail, claws, and teeth. Many of its fossils have been found in Solnhofen.

ANSWER: Archaeopteryx

9. Near the end of this novel Madame Defarge is killed when her gun goes off while she fights with Miss Pross. FTPE:

[10] What is this novel that famously begins, "It was the best of times, it was the worst of times"?

ANSWER: A Tale of Two Cities

[10] Madame Defarge secretly encodes the names of those to be killed in the Revolution in this seemingly innocuous manner.

ANSWER: knitting (accept reasonable equivalents, I guess?)

[10] This father of Lucie in the novel has become obsessed with cobbling during his time in the Bastille.

ANSWER: Dr. Alexandre Manette

10. This fiscal policy meant to stimulate the economy concluded at the end of October, 2014. FTPE:  
[10] What monetary program instituted by Ben Bernanke allowed the central banking institution of the US to purchase bonds and other financial instruments, known by the abbreviation QE?

ANSWER: Quantitative Easing

[10] Quantitative Easing's end was announced by Janet Yellen, the first female head of this banking system of the US.

ANSWER: Federal Reserve Bank

[10] Part of Bernanke's justification for quantitative easing was the idea that Gross Domestic Product equals the money supply times this other quantity, defined as the speed that money changes hands.

ANSWER: velocity of money

11. This third party came together in 1848, breaking from the Democrats. FTPE:

[10] What party demanded that slavery be outlawed in new territories, captured in their slogan which also included "Free Speech, Free Labor, and Free Men"?

ANSWER: Free Soil Party

[10] The Free Soil Party opposed policies espoused by this president elected in 1844 who served only one term, leading the US in the Mexican war.

ANSWER: James K. Polk

[10] The party performed poorly in 1852, partly because many Democrats felt that the slavery issue had been settled by this agreement brokered by Henry Clay.

ANSWER: Compromise of 1850

12. Elijah had crossed the River Jordan when this happened to him. FTPE:

[10] According to 2<sup>nd</sup> Kings, Elijah did this in a chariot that appeared out of a whirlwind.

ANSWER: ascended to heaven (accept all kinds of movement verbs with "heaven")

[10] Elijah was walking with this servant of his, a prophet who awesomely had a bear eat some kids because they mocked his baldness.

ANSWER: Elisha

[10] This grandfather of Noah also seems to have gotten into heaven without dying, as Genesis says he "walked with God, and God took him."

ANSWER: Enoch

13. The performer of the title music "did a lazy sway . . . /With his ebony hands on each ivory key." FTPE:

[10] What song is "coming from a black man's soul" in a 1923 poem by the author of "Theme for English B"?

ANSWER: "The Weary Blues"

[10] What Harlem Renaissance poet wrote "The Weary Blues" and "The Negro Speaks of Rivers"?

ANSWER: Langston Hughes

[10] This older Harlem Renaissance author collected poems in *God's Trombones* and described a black man's efforts at passing as white in *The Autobiography of an Ex-Colored Man*.

ANSWER: James Weldon Johnson

14. One of these objects resembles an elongated dumbbell that is surrounded by a torus, while the other four types are shaped like a cloverleaf. For 10 points each:

[10] Name these objects defined as having an azimuthal quantum number of two.

ANSWER: d orbitals

[10] A completely filled 3d subshell contains this total number of electrons. The element with this atomic number is the noble gas located below helium on the periodic table.

ANSWER: ten

[10] Within the 3d subshell, this eponymous rule of maximum multiplicity states that an atom adopts a configuration with the greatest number of electrons having unpaired spins.

ANSWER: Hund's rule

15. Lord Byron's poem "The Curse of Minerva" attacked the removal of friezes from this location. FTPE:

[10] What temple to Athena is the largest structure on the Acropolis?

ANSWER: Parthenon

[10] Byron's poem satirizes this British diplomat's taking of the friezes, known as his namesake "Marbles," back to London.

ANSWER: The Earl of Elgin (accept Thomas Bruce—give them ten bucks if they say that)

[10] Elgin also removed friezes from the Propylaea and this other temple on the Acropolis which features the famous Porch of the Caryatids.

ANSWER: Erechtheion or Erechtheum

16. This legal barrier was mostly made uniform in the US by a 1984 federal act that threatened withholding of federal money to states that didn't enact it. FTPE:

[10] What is this requirement mandating that one be 21 years old to be able to purchase or imbibe legal intoxicants?

ANSWER: minimum drinking age (accept obvious equivalents)

[10] Specifically, the 1984 National Minimum Drinking Age legislation called for withholding federal funds for this type of construction project to states that didn't raise the age to 21.

ANSWER: interstate or highway building (prompt on "roads")

[10] This public interest group started by Candice Lightner is credited with the lobbying that created the National Minimum Drinking Age legislation.

ANSWER: MADD (Mothers Against Drunk Driving)

17. This man's autobiographical works include *Confessions* and *Reveries of a Solitary Walker*. FTPE:

[10] Identify this French philosopher who wrote that "Man is born free, yet everywhere is in chains," in *The Social Contract*.

ANSWER: Jean-Jacques Rousseau

[10] Rousseau's *Emile* is subtitled for "A New" this, which John Locke wrote "A Few Thoughts Concerning" and John Dewey paired with "Democracy."

ANSWER: education

[10] One of Rousseau's earliest texts was this work that examined the state of nature and eventually came to the conclusion that private property was the original source of the title concept.

ANSWER: Discourse on Inequality (or "Discourse on the Origin and Basis of Inequality Among Men")

18. The protagonist of this work gains notoriety after throwing Amalinze the Cat in a wrestling match. FTPE:

[10] Name this novel in which Okonkwo is exiled from Umuofia for seven years, only to return and find it overrun by Europeans.

ANSWER: Things Fall Apart

[10] This author of *Things Fall Apart* wrote about the fictional country of Kangan in *Anthills of the Savannah*, and Ezeulu's struggle against Christian missionaries in *Arrow of God*.

ANSWER: Chinua Achebe

[10] Achebe recommended this man's novel *Weep Not, Child* for publication. This Kenyan author of *A Grain of Wheat* wrote *Wizard of the Crow* in his native language of Gikuyu.

ANSWER: Ngugi wa Thiong'o (or James Ngugi)



19. In this South American country, the 19th of April Movement, or M-19, was formed following Misael Pastrana Borrero's narrow defeat of Rojas Pinilla in the 1970 presidential election. FTPE:

[10] Name this country where the murder of Jorge Gaitan led to a period called La Violencia.

ANSWER: Colombia

[10] This nation achieved independence from Colombia in 1903 and is home to a namesake canal.

ANSWER: Panama

[10] This city was the center of Pablo Escobar's drug cartel and the world's murder capital.

ANSWER: Medellin

20. This company's Falcon 9 rocket is named for the number of its first-stage Merlin engines. FTPE:

[10] Name this company founded in 2002 whose other rockets include the reusable Grasshopper.

ANSWER: SpaceX [or Space Exploration Technologies Corporation]

[10] SpaceX was founded by this man, who also co-founded Tesla Motors and PayPal.

ANSWER: Elon Musk

[10] SpaceX made history in May of 2012 when this object, delivered by Falcon 9, became the first private spacecraft to visit the International Space Station.

ANSWER: Dragon