

Delta Burke 2014
Round 3

1. This political figure was instrumental in the creation of the planned community of Arthurdale in West Virginia, meant to be a model community for impoverished coal miners. From 1935 till her death in 1962, she wrote a syndicated daily newspaper column titled "My Day." She resigned from the Daughters of the American Revolution when they denied the use of Constitution Hall for a concert by African-American singer Marian Anderson, arranging for Anderson to sing at the Lincoln Memorial. After her husband's death, she was appointed to the UN General Assembly by Harry Truman. FTP name this first lady whose husband was elected US President four times.

ANSWER: Eleanor Roosevelt [prompt on partial answer]

2. This author wrote of a man "who sought Heaven under a mountain of stone" in "Sakyamuni Coming Out from the Mountain." This poet wrote of "the great dream of Me or China, or you and a phantom Russia" in a poem that ends, "Love, your mother'/which is Naomi—." He asked, "what sphinx of cement and aluminum bashed open their skulls?" in his best-known poem. He mused that it is "strange to think of you, gone without corsets and eyes" in his "Kaddish," and opened his best-known work, "I saw the best minds of my generation destroyed by madness." For 10 points, identify this assertively bearded Beat poet of "Howl."

ANSWER: Allen Ginsberg

3. This character titles a book about "The Thousand-Dollar Tan Line" and a movie in which James Franco tries to list words that rhyme with orange. On a TV show, this character is raped at Shelly Pomroy's party by Cassidy Casablancas, who goes by the nickname Beaver, which he hates. Bonnie DeVille's murder is solved by this character in a movie that was funded by a Kickstarter campaign. In that movie, this character comes back to Neptune after her former boyfriend Logan Echolls is accused of murder. For 10 points, name this female detective played by Kristen Bell.

ANSWER: Veronica Mars [accept either]

4. The core of this compound is known as 6-APA, and the phen-oxy-methyl form of it is acid stable and therefore suitable for oral administration. Florey and Chain were the first to manufacture small doses of this compound, which contains a beta-lactam ring in its structure. This compound was withheld from patients in the Tuskegee syphilis experiment, and was first isolated from the mold *P. notatum* in 1928 by a Scottish biologist. For 10 points, name this antibiotic that inhibits bacterial cell wall synthesis and was accidentally discovered by Alexander Fleming.

ANSWER: penicillin

5. In the usual interregnum preceding this action and during it, the Camerlengo is in charge of all deliberations. Discussions of candidates during this process are called "congregations" and are always led by the Bishop of Ostia. Immediately prior to this taking place, the "master of liturgical celebrations" is required to call out "extra omnes" before sealing the Sistine Chapel. Participants in this process vote three times a day, and if a 2/3 majority is not achieved, a day of mass and prayer must be held before the next congregation. FTP this describes what process which, upon completion, leads to white smoke being visible in St. Peter's square, followed by the announcement "Habemus Papam!"

ANSWER: papal conclave or electing a new pope [accept equivalents]

6. One work by this artist is framed by a piece of rope and contains a chair caning pattern printed on a piece of oilcloth. This artist married Olga Khokhlova, a dancer in the ballet *Parade*, whose costumes he designed. Teardrops double as fingernails in this artist's depiction of Dora Maar weeping. A flower near a broken sword and a horse neighing in agony both appear in a 1937 work by this artist named for a Basque town bombed during the Spanish Civil War by Nazi aircraft. For 10 points, name this Spanish artist who co-founded Cubism and painted *Guernica*.

ANSWER: Pablo Picasso

7. The hypoh type of boranes with a zero net charge have this many more hydrogens than borons. For an *anti-aromatic* molecule, this is the *second* smallest number of pi electrons possible in the conjugated system. The most common form of sulfur in nature has this number of atoms in the shape of a ring. This number of hydrogens is found in each molecule of butene and propane. The element with this atomic number has an allotrope called ozone. For 10 points, name this number of valence electrons that most main-group elements desire, according to the octet rule.

ANSWER: eight

8. One response to this event led to an incident in which a Moroccan waiter was killed walking back from the cinema with his pregnant wife in Lillehammer, Norway. The perpetrators of this event called it "Ikrit and Biram," and attempted to negotiate for the release of the leaders of the Red Army Faction. In reaction to this event, one nation carried out Operation Spring of Youth and Operation Wrath of God to assassinate Ali Hassan Salameh, the chief of operations of this event. Perpetrated by the Palestinian group Black September, FTP, name this event during which 11 members of the Israeli Olympic team were taken hostage and killed.

ANSWER: the Munich Massacre (accept "killings at Munich Olympics" or other clear knowledge equivalents ; prompt on "1972 Summer Olympics")

9. This thinker counterposed Newtonian and Leibnizian ideas of space and time in his best-known work's first section, titled "Transcendental Aesthetic." His concept of transcendental idealism relies on his description of "things-as-they-are," noted in his *Prolegomena to any Future Metaphysics*. An early treatise about the merits of democracy in maintaining diplomatic serenity is his *Perpetual Peace*. This man's *Groundwork for the Metaphysics of Morals* outlines a concept later fully described in his *Critique of Practical Reason*. FTP name this German creator of the categorical imperative.

ANSWER: Immanuel Kant

10. This is the first name of the female character in a Hawthorne story who has become poisonous due to her association with her father's plants in "Rappaccini's Daughter." Another fictional female of this name is kinswoman to Hero and engages in a "merry war" of wits with her lover, Benedick. That female lead of *Much Ado about Nothing* shares this first name with a woman whose beauty as a child inspired a collection of sonnets and commentaries called *La Vita Nuova*. FTP what woman serves as the guide of Dante in the *Paradiso* section of the *Divine Comedy*.

ANSWER: Beatrice

11. British anthropologist Edward Burnett Tylor likened early stages of this concept to childhood in an 1871 book whose first volume is named for its origins. Matthew Arnold defined this term as a "study of perfection" in a collection in which he contrasted Hebraism and Hellenism and opposed this term with "Anarchy." Clifford Geertz defined this construct as "a system of inherited conceptions expressed in symbolic form" in a book titled for the "Interpretation of" this term. FTP what did Tylor define as the "complex" of "knowledge, belief, art, morals [and] custom" of a people, which in a society may include many "sub" forms?

ANSWER: culture

12. One mayor of this city caused a police riot in 1857 when he appointed Charles Devlin street commissioner. That mayor, Fernando Wood, recommended this city secede from the Union at the outbreak of the Civil War; Wood lost election for a third term despite the help of the Dead Rabbits gang in collecting fraudulent votes. Ed Koch served three terms as mayor of this city before losing in 1989 to David Dinkins, this city's first black mayor. The previous mayor of this city had his ban on the sale of soft drinks in sizes greater than 16 ounces repealed in the summer of 2014. FTP what city is currently led by Bill de Blasio, who succeeded Michael Bloomberg?

ANSWER: New York City

13. The time average of the Poynting vector divided by the speed of light equals one form of this quantity. A solar sail, which is a form of spacecraft propulsion, is based on the radiation type of it. Another form of this quantity that is based on a property of electrons supports a white dwarf from collapsing. The transmission of this quantity in a fluid is the subject of Pascal's principle. The gauge form of this quantity equals the difference between the absolute and atmospheric types of it. For 10 points, name this quantity that generally equals force divided by area.

ANSWER: pressure [accept specific types]

14. This province is home to a type of bear nicknamed the "spirit bear," and its Lake Okanagan is home to the mythical Ogobogo monster. This province is separated from the Haida Gwaii by the Strait of Hecate, while its Kootenay [*KOOT-n-ey*] National Park contains a series of mineral springs known as the Paint Pots. The longest river in this province, the Fraser, rises near Mount Robson and drains into the Georgia Strait. This province's largest island is separated from the mainland by the Queen Charlotte Strait, and from the US by the Strait of Juan de Fuca. FTP, name this Canadian province with capital Victoria, whose largest city is Vancouver.

ANSWER: British Columbia [or BC]

15. An opera by a composer with this name contains the "Chorus of Exiled Palestinians" and the murder of the wheelchair-bound title character. In a musical, a character with this name sings "We piddle, twiddle, and resolve / Not one damn thing do we solve." That character with this name sings "I say vote yes" and "Vote for independency" in a song in which others repeat "Someone oughta open up a window." The composer with this name also wrote an opera in which a U.S. president visits an Asian country and Chairman Mao dances a foxtrot with his wife. For 10 points, identify this name shared by the composer of *Nixon in China* and a character from *1776* who is the subject of the song "Sit Down, John."

ANSWER: John Adams [prompt on "John"]

16. An important non-fiction work details this country's *Rebellion in the Backlands* led by Antonio the Counselor and was written by Euclides da Cunha [*koon-yuh*]. The enchanting cooking of the title female for her Syrian-born husband Nacib Saad forms part of the plot of *Gabriela, Clove, and Cinnamon*, a novel written by an author from this country. Jorge Amado's first novel argued that this country's emphasis on the pre-Lenten festival hampered its development and is titled *The Country of Carnival*. FTP what South American country is home to Paulo Coelho, who wrote *The Alchemist* in Portuguese?

ANSWER: Brazil

17. In a humbling episode told by the Wabanaki people, this type of person defeats the mighty hero Glooskap with his gigantic lung power. Arkas was in this state of being when he was rescued by Hermes after Artemis killed Callisto, who had been turned into a bear. Dionysus was in this form when he was taken from Zeus's thigh and given to Ino and Athamas. Oedipus was in this state of being when he was left exposed on Mount Kithairon by his father, Laius. FTP, Uranus and Cronus both swallowed their children when they were in what stage of human development?

Answer: baby (accept obvious synonyms like "infant")

18. Members of this empire were divided into kin groups known as ayllu [*EYE-you*]. This empire absorbed the Chimu civilization and used quipus [*KEE-poops*] for keeping records. The language Quechua [*KECH-wah*] was spoken by members of this empire. One ruler of it rebuilt a city in the shape of a puma, and another killed his half-brother Huascar [*WAHS-kahr*] and offered a room full of gold as a ransom to a conquistador. For 10 points, name this empire that was centered at Cuzco, and was conquered during the reign of Atahualpa [*ah-tah-WAHL-pah*] by Francisco Pizarro.

ANSWER: Inca

19. A hand-drawn picture of this body by astronomer Comas Sola displays the limb-darkening effect. Shangri-La is a dark area and Xanadu is a bright region of this body, which makes four orbits for every three orbits that Hyperion makes. This moon, which has the strongest anti-greenhouse effect in the solar system, is home to a body of liquid called Kraken Mare [*MAHR-ey*], and was once thought to be larger than Ganymede because of its thick atmosphere. Methane likely composes the lakes, rivers, and clouds of this moon, which the *Huygens* probe landed on in 2005 after separating from the *Cassini* orbiter. For 10 points, name this largest moon of Saturn.

ANSWER: Titan

20. In one work by this author, Dr. Austin Sloper continually attempts to undermine the engagement between his daughter Catherine and Morris Townsend. In another book by this author, Lambert Strether is sent to Europe to retrieve Chad Newsome. This author of *Washington Square* wrote another novel in which Maggie Verver suspects her husband Amerigo's infidelity after purchasing the title object. This author of *The Ambassadors* and *The Golden Bowl* created a character that has a fling with Frederick Winterbourne and dies of Roman fever, while in another work, the ghost of Peter Quint torments the children Flora and Miles. FTP, name this author of *Daisy Miller* and *The Turn of the Screw*.

ANSWER: Henry James

Delta Burke 2014
Round 3 Bonuses

1. Bardeen, Brattain [*BRAT-n*], and Shockley were the main developers of these devices, which largely replaced vacuum tubes in devices such as computers and radios. For 10 points each:

[10] Name these electronic devices whose types include bipolar junction and field-effect.

ANSWER: transistors

[10] Moore's law, which states that the density of transistors on integrated circuits doubles every 24 months, is named for a founder of this corporation, which developed the Pentium processor.

ANSWER: Intel

[10] Michelle Simmons led a group that used this element to build the first single atom transistor. This element was discovered in urine by Hennig Brand, who thought urine contained gold.

ANSWER: phosphorus

2. Echidna of Greek myth fame was half-woman, half one of these creatures. FTPE:

[10] Heracles strangled two of what type of creatures sent by Hera to kill him in his crib?

ANSWER: snakes [or serpents; accept equivalents]

[10] The Rainbow Serpent is a primordial deity of the people of this modern country.

ANSWER: Australia

[10] This serpent, sometimes considered to be a dragon, gnaws on the roots of Yggdrasil, the World Tree of Norse myth.

ANSWER: Nidhogg

3. Somewhat sadly, votes on *Trip Advisor* make a tour of the Ben and Jerry's factory a top-five thing to do in this state. FTPE:

[10] In what state could you maybe have more fun skiing at the resort at Stowe?

ANSWER: Vermont

[10] You can take a ferry west from Burlington across this large lake to Plattsburgh, New York.

ANSWER: Lake Champlain

[10] The mountain and highland range called The Berkshires in Massachusetts takes on this name as it passes into Vermont.

ANSWER: Green Mountains

4. This country is the home of Juan Rulfo, author of *Pedro Paramo*. FTPE:

[10] American author Ambrose Bierce is thought to have died in this country after becoming embroiled in its Revolution of 1910.

ANSWER: Mexico

[10] Bierce's disappearance is chronicled in *The Old Gringo*, a novel written by this author of *The Death of Artemio Cruz*.

ANSWER: Carlos Fuentes

[10] This poet also includes the Mexican Revolution as a major theme in his essay *The Labyrinth of Solitude*. His surrealist work "Sunstone" is a circular poem based on the Aztec calendar.

ANSWER: Octavio Paz

5. Bill Evans claimed to have written this album's third track, which contains ten-bar cycles, and was described by jazz critic Ted Gioia as "improvised ambient music." For 10 points each:

[10] Name this modal jazz album released in 1959 that begins with the tune "So What."

ANSWER: Kind of Blue

[10] *Kind of Blue* is an album by this jazz trumpeter, who often used a Harmon mute. Other albums by this jazz musician include *Bitches Brew* and *The Birth of the Cool*.

ANSWER: Miles Davis (cont'd next page)

[10] An album by Davis that is entitled "Sketches of" this European country opens with a version of Joaquin Rodrigo's piece *Concierto de Aranjuez*, in which the trumpet replaces the guitar.

ANSWER: Spain [or Sketches of Spain]

6. One attempt to remove this man from power resulted in the Day of the Dupes. FTPE:

[10] Name this rival of the Marquis de Cinq-Mars who served as a Chief Minister of France and was known as the "Red Eminence."

ANSWER: Cardinal Richelieu

[10] Cardinal Richelieu served as Minister to this Bourbon king. This father of the Sun King had exiled his brother Gaston in wake of the Day of the Dupes.

ANSWER: Louis XIII

[10] Cardinal Richelieu negotiated the Peace of Alais with this group of French Protestants, who had earlier been victimized by the St. Bartholomew's Day Massacre.

ANSWER: Huguenots

7. One class of these compounds was discovered while studying foolish seedling disease, and another class is divided into phenylurea and adenine types. For 10 points each:

[10] Name these compounds whose classes include gibberellins [*jib-uh-REL-ins*] and cytokinins.

ANSWER: plant hormones

[10] This other class of plant hormones, whose first member to be discovered was isolated from the pollen of *Brassica napus*, is responsible for leaf bending. Some dwarf mutants of the model organism *Arabidopsis thaliana* are insensitive to this class of plant hormones.

ANSWER: brassinosteroids

[10] Steroid compounds, such as brassinosteroids, usually have this number of fused rings. Robert Koch developed this number of postulates for determining the microbial cause of a disease.

ANSWER: four

8. "Things as they are/Are changed upon" a blue one of these instruments in a Wallace Stevens poem. FTPE:

[10] "The jangling of the metal strings" depict what instrument in that Stevens poem that was inspired by Picasso's Blue-Period painting of an old man playing it?

ANSWER: guitar

[10] The first stanza of the Wallace Stevens poem "The Man with the Blue Guitar" mentions a day of this color, which also describes a thought found in a shade in Andrew Marvell's poem "The Garden."

ANSWER: green

[10] Guitar Bains is the best friend of Milkman Dead in this novel by Toni Morrison, which is partly inspired by folktales of African-Americans who flew away from slavery.

ANSWER: Song of Solomon

9. Answer some questions about an Indian monotheistic religion FTPE.

[10] This faith was founded by Guru Nanak; ten leaders later, the final Guru of this religion is the *Adi Granth*, its holy book.

ANSWER: Sikhism

[10] This is the surname of every baptized Sikh male, a necessary symbol of initiated members of the Khalsa.

ANSWER: Singh

[10] The fourth leader, Guru Ram Das, is best known for founding this city, which houses the Harmandir Sahib, or “Golden Temple”.

ANSWER: Amritsar

10. In 2012 California voters approved Proposition 36, which required that an offenders’ ultimate crime under this sentencing model be “serious and/or violent.” FTPE:

[10] What is the common name of “habitual” or “persistent” offender laws that require substantial sentences after a certain number of convictions?

ANSWER: three strikes law

[10] A similar Florida law that mandates three specific penalties for using a firearm in the commission of a felony goes by this partially numeric nickname, as seen in public service announcements.

ANSWER: 10-20-Life

[10] The 10-20-Life sentencing regimen in Florida was part of the 1998 campaign platform of this former Florida governor, considered a possible 2016 presidential hopeful.

ANSWER: Jeb Bush [prompt on partial answer]

11. This 1960 film’s screenwriter, Dalton Trumbo, bitterly complained about revisions to his script with this movie’s director. FTPE:

[10] What film starring Kirk Douglas as the title Roman gladiator ends with his followers all shouting “I am” [this title figure]”?

ANSWER: Spartacus

[10] *Spartacus* was directed by this man who also made *2001: A Space Odyssey*, *Dr. Strangelove*, and *A Clockwork Orange*.

ANSWER: Stanley Kubrick

[10] Dalton Trumbo was one of this numerically named group of screenwriters and directors who were blacklisted by the House Un-American Affairs Committee.

ANSWER: Hollywood Ten

12. Ludwig Feuerbach wrote a work titled after *The Essence* of this faith, while John Locke wrote about its *Reasonableness*. FTPE:

[10] Name this religion, which Bertrand Russell railed against in an essay describing why he was not a member of this religion.

ANSWER: Christianity

[10] This Christian philosopher was the first to combine Aristotelian philosophy with Christian theology. He provided five proofs for the existence of God in his *Summa Theologica*.

ANSWER: Thomas Aquinas

[10] *Summa Theologica* spent some time investigating the ontological argument, which was first put forth by this Benedictine monk.

ANSWER: St. Anselm of Canterbury

13. The standard score can be calculated as the difference between a raw score and the mean divided by this quantity, which is also equal to the square root of the variance. FTPE:

[10] Name this quantity from statistics that measures the dispersion of a distribution.

ANSWER: standard deviation

[10] A rule from statistics states that approximately ninety-five percent of data values are within this whole number of standard deviations of the mean.

ANSWER: two

[10] This man's namesake inequality states that the probability of a random variable differing from its mean by more than k standard deviations is at most one over k squared.

ANSWER: Pafnuty Chebyshev [accept transliterations, such as Chebycheff; or Tchebychev]

14. Psychologist Bruce Alexander argued against the “disease theory” of this state of mind. FTPE:

[10] Alexander placed rats in a nicer surroundings to demonstrate that they showed less compulsion to ingest an opiate in a study of this behavior.

ANSWER: addiction [or drug dependence]

[10] The fifth edition of this diagnostic text of the American Psychiatric Association still lists over a dozen physiological addictions.

ANSWER: DSM-V [or Diagnostic and Statistical Manual from smarty boots]

[10] Alexander used this opiate drug, from which heroin is derived, in his rat studies.

ANSWER: morphine

15. The first play written and staged by an American, *The Contrast*, was written by Royall Tyler, a veteran of this conflict. FTPE:

[10] What 18th-century war was also the subject of the 1936 novel *Drums along the Mohawk*?

ANSWER: American Revolutionary War [or American Revolution]

[10] Another Revolutionary War novel is this work for young people by Esther Forbes; the title character's hand is crippled in a silversmith shop accident.

ANSWER: Johnny Tremain (accept “Johnny Deformed”--wait, no don't)

[10] Johnny Tremain's injury comes while working on an order for this real-life founding father, president of the Second Continental Congress.

ANSWER: John Hancock

16. Its current secretary, Robert A. McDonald, was formerly CEO of Proctor and Gamble. FTPE:

[10] Name this Cabinet department mired in scandal because its officials falsified data regarding how long people who previously served in the military were waiting to see doctors at hospitals.

ANSWER: Department of Veterans Affairs [or VA]

[10] This man, a native of Hawaii who previously served as Chief of Staff of the US Army, resigned as Secretary of Veterans Affairs in May of 2014 as a result of the VA scandal.

ANSWER: Eric Shinseki

[10] The scandal first erupted at a facility in this state, whose current governor is Jan Brewer.

ANSWER: Arizona

17. Troops under the command of this man massacred civilians during the Siege of Drogheda, and this man had earlier led a decisive cavalry charge at the Battle of Marston Moor. FTPE:

[10] Name this man who, following the execution of Charles I, ruled as Lord Protector of England.

ANSWER: Oliver Cromwell

[10] During the English Civil War, Oliver Cromwell had served as a member of this army that was formed by Parliament to fight the “Good Old Cause” against the crown.

ANSWER: the New Model Army

[10] Cromwell and Thomas Fairfax, in command of the New Model Army, smashed the forces of Charles I at this battle that ended the English Civil War.

ANSWER: Battle of Naseby

18. One result of a 1816 gathering at the Villa Diodati in Switzerland was the novel *Frankenstein* by Mary Shelley. FTPE:

[10] Another work started that night was the first English-language story about one of these supernatural figures. The title figure is Lord Ruthven, whose fiancée is found drained of blood.

ANSWER: vampire

[10] John Polidori based his vampire on this host of that gathering in Switzerland, who was at first credited with writing “The Vampyre.” He also wrote the poem “She Walks in Beauty.”

ANSWER: George Gordon, Lord Byron

[10] Polidori’s sister Frances was the mother of this Pre-Raphaelite, author of the sonnet sequence *The House of Life*, which he non-creepily retrieved from his wife’s coffin after burial.

ANSWER: Dante Gabriel Rossetti

19. The dispersed particles in these substances are usually much larger than those in solutions, and unlike suspensions, the particles in them cannot be separated using filter paper. FTPE:

[10] Name these substances whose types include foams and emulsions.

ANSWER: colloids

[10] Fog, smoke, and hair spray are examples of this other type of colloid, in which a gas is the dispersing medium and either a solid or liquid is the dispersed substance.

ANSWER: aerosols

[10] This effect, the scattering of light by particles in a colloid, is named for a nineteenth century British scientist, who also studied the “origin and phenomena of glaciers” while in the Alps.

ANSWER: Tyndall effect

20. One early presentation of this doctrine was the “South Carolina Exposition and Protest.” FTPE:

[10] What term is used to describe the idea that a state can invalidate federal laws that it interprets as unconstitutional?

ANSWER: nullification

[10] The author of the Exposition and Protest was what South Carolina senator and first Vice President under Andrew Jackson? He also served as VP under John Quincy Adams.

ANSWER: John C. Calhoun

[10] Calhoun resigned as Andrew Jackson's Vice-President due to the Petticoat Affair, which centered on this “gorgeous hussy,” the wife of the Secretary of War.

ANSWER: Peggy Eaton [or Margaret O'Neill Eaton]