

Valencia Delta Burke Invitational 2013
Round 3

1. Carvings on Stela 19 are the earliest illustrations of this god, depicting him rising from a shaman's ritual. He was part of a trinity with the Goddess of the Cave and Tlaloc, god of rain, in early agricultural cults. He is the god of light, wind, and the cardinal West and twin brother of Xolotl [zo-lottel]. In one story Tezcatlipoca got him drunk and tricked him into sleeping with his own sister. FTP who is this Aztec "feathered serpent" deity?

ANSWER: Quetzalcoatl

2. A speech by Nina in one of these literary situations is repeatedly interrupted by Arkadina to Treplev's annoyance in Chekov's *The Seagull*. Holofernes creates one of these depicting the Nine Worthies in *Love's Labour's Lost*. The best known of these literary works depicts Lucianus's marriage to his aunt Baptista after Lucianus kills the title figure; that work is preceded by a "dumbshow" in which a killer pours poison in a king's ear, and is performed for characters like Gertrude, Claudius, and Ophelia. FTP what type of work is *The Murder of Gonzago*, which is presented as a type of entertainment within *Hamlet*?

ANSWER: play within a play (don't accept or prompt on "frame story")

3. This city saw the 1948 convention of the States' Rights Party, aka the Dixiecrats, which nominated Strom Thurmond for president. This city is home to the second-tallest metal statue in the US, a depiction of Vulcan celebrating this city's status as an iron-production center and "Pittsburgh of the South." The 16th Street Baptist Church in this city was bombed by The Cahaba Boys, a KKK offshoot, in 1963, killing four African-American girls. A newspaper editorial titled "A Call for Unity" prompted a response by a civil rights leader imprisoned in this city. For 10 points, what Alabama city's jail was the site of the writing of a Martin Luther King letter?

ANSWER: Birmingham, Alabama

4. The only site in this organ where attachment of mucosa to muscle is tight is the trigone. This organ's inflammation is known as cystitis [*sis-TY-tis*]. Preceded by the word "swim," it names an organ possessed by bony fish that controls buoyancy. In men, the neck of this organ is adjacent to the prostate gland. The detrusor muscle is located in the wall of this organ and is responsible for its emptying. Incontinence can be caused by a disorder of this organ, which receives a waste product from the kidneys through the ureters. For 10 points, name this organ that stores urine.

ANSWER: bladder

5. A paper titled for the direct and indirect forms of this entity introduced the Atkinson-Stiglitz separability theorem. A type of this entity named for Tobin is applied to foreign exchange transactions, and a type named for Pigou is applied to activities that generate negative externalities. One type was authorized by the Sixteenth Amendment to the US Constitution, and another type common in Europe is called "value added." Revenue is plotted against its rate on the Laffer curve. For 10 points, name this charge imposed by governments on property or income.

ANSWER: taxes [accept word forms, such as taxation]

6. Pierre Laporte and James Cross were kidnapped in this month in 1970, leading to the invocation of the War Measures Act by Pierre Trudeau. This month provides the name used by Cubans for the missile crisis that took place in this month in 1962. Israel fought Egypt and Syria in the Yom Kippur War during this month. The provisional government of Alexander Kerensky was attacked by force following massive worker strikes in this month, leading to the seizure of power by the Bolsheviks in a revolution named for this month. FTP what month saw these events, the last day of which saw the Celtic Samhain (sow-un) festival Christianized to Halloween?

ANSWER: October

7. In one novel by this author, the decreased social circumstances of Ethan Allen Hawley lead him to compromise his principles to regain his moneyed status. Ed Ricketts was the inspiration for the marine biologist Doc in another of this man's novels in which Mack and Lee Chong's party for Doc goes out of control and destroys his lab. Along with *The Winter of Our Discontent* and *Cannery Row*, another novel by this author sees Jim Casy killed during a strike, and Rose of Sharon breastfeed a starving man after her baby is stillborn. FTP name this author who created the Joad family in *The Grapes of Wrath*.

ANSWER: John Steinbeck

8. A work of this type by Salvator Rosa includes the inscription "Be silent unless your speech is better than silence." A work of this type by Arnold Böcklin includes a skeleton playing a violin, and one by Edvard Munch includes a clock and a bed. An iconic work of this type by Albrecht Dürer shows a direct frontal view and is strongly reminiscent of depictions of Christ. A work of this type by Marc Chagall includes a figure with seven fingers, and one by Parmigianino [*pahr-mi-juh-NEE-noh*] was made with a convex mirror. For 10 points, name this type of work in which an artist depicts his own image.

ANSWER: self-portraits [accept equivalents]

9. G protein-coupled receptors pass through the cell membrane this number of times. Hydrazine contains hydrogen and the element with this atomic number. Humans have this number of cervical vertebrae, and there are this number of SI base units. A right triangle with legs of this number and twenty-four has a hypotenuse of twenty-five. George Miller posited people remember this number of chunks, plus or minus two, in their short term memory. A problem proved impossible by Euler involved crossing this number of bridges. For 10 points, name this number of sides on a heptagon.

ANSWER: seven

10. This city houses the headquarters of OPEC as well as the International Atomic Energy Agency. In 1857, this city's ancient walls were demolished in favor of a *Ringstrasse*, now lined by many notable buildings such as the Rathaus, the Hofburg Palace, and the State Opera. This city's St. Stephen's Cathedral features a distinctive tiled roof characterized by its colored zigzag pattern and prominent double-headed eagles. This city's Schönbrunn Palace was the summer residence of rulers like Maria Theresa and Franz Joseph. For 10 points, name this former center of Habsburg power and current capital of Austria.

ANSWER: Vienna

11. In one speech, this man stated "Let me conjure you ... to express our utmost horror and detestation of the man who ... attempts to open the flood-gates of civil discord, and deluge our rising empire in blood." This man, who put down the Newburgh Conspiracy, was aide to Edward Braddock at the disastrous loss at the Battle of Monongahala. Light-Horse Harry Lee eulogized this man in a speech that began "First in war, first in peace, and first in the hearts of his countrymen." FTP name this Commander-in-Chief of the Continental Army who was also the first President of the United States.

ANSWER: George Washington

12. On one show on this network, Lyle Lovett plays a lawyer who brings a widow a three bean salad filled with money. On that show on this network, Matthew Lillard plays Daniel Frye, a newspaper reporter. On another show on this network, a poison-tipped umbrella is used in order to facilitate placing a recorder in Caspar Weinberger's clock. On that show on this network, Elizabeth and Philip Jennings are undercover KGB spies. For 10 points, name this network that airs *The Bridge* and *The Americans*, as well as *Sons of Anarchy* and *American Horror Story*.

ANSWER: FX

13. Richard Feynman and Murray Gell-Mann proposed the V-A theory of this interaction. The charge current type of this interaction was discovered before its neutral current type. This fundamental interaction is responsible for changing the flavor of quarks, which can cause beta decay. CP symmetry is violated by this force, which is mediated by the W and Z bosons. Glashow, Salam and Weinberg unified it with the electromagnetic force. For 10 points, name this fundamental force between elementary particles that is not as powerful as the strong force.

ANSWER: weak nuclear force [or weak nuclear interaction; prompt on "electroweak"]

14. In one story by this author, Helen is locked out in the snow by her husband Charlie Wales, who wants his daughter Honoria to live with him. This author of "Babylon Revisited" wrote a novel in which the actress Rosemary Hoyt has an affair with the psychiatrist Dick Diver, who marries Nicole, a former patient. This author wrote another novel partially set in West Egg, in which George Wilson shoots the title character, who loves Daisy Buchanan, and befriends Nick Carraway. For 10 points, name this author of *Tender is the Night* and *The Great Gatsby*.

ANSWER: F. Scott Fitzgerald

15. One of this thinker's works claims "Subjectivity is truth" and is seen as a sequel to a work that defines man as the "Learner" and his "Error" as sin. This author of *Concluding Unscientific Postscript to Philosophical Fragments* included the "Seducer's Diary" in another work that discusses the evolution through the aesthetic, ethical, and religious stages of life. He asked, "Is there a teleological suspension of the ethical?" in a work that contrasts the knight of infinite faith with the knight of infinite resignation. That work examines Abraham's sacrifice of Isaac. For 10 points, name this author of *Either/Or* and *Fear and Trembling*, a frequent user of pseudonyms.

ANSWER: Soren Kierkegaard

16. A man who wrote under the pseudonym Picander made librettos for this composer, who created the cantata *Actus Tragicus* for his uncle's funeral. One work by this composer ends with a quodlibet [KWOD-luh-bet] and was commissioned to relieve Baron von Keyserling's insomnia. One collection by this composer sometimes identified as BWV 846–893 consists of two books of twenty-four preludes and fugues. For 10 points, name this Baroque period German composer of the *Goldberg Variations*, *The Well-Tempered Clavier*, and the *Brandenburg Concertos*.

ANSWER: Johann Sebastian Bach

17. When an officer asked for reinforcements, one general in this battle said, “Do you want me to make some?” That general in this battle sent his personal bodyguards to recapture Plancenoit in an attempt to split the enemy’s forces. One side intercepted a message betraying the position of their enemy’s ally at St. Lambert after launching a diversionary attack on a farmhouse at Hougomont to begin this battle. Marshal Ney mistakenly thought the other side was retreating and ordered a costly charge against La Haye Sainte. One side in this battle was bolstered by troops led by Gebhart von Blucher. Ending the Hundred Days, FTP, name this battle where the Duke of Wellington handed Napoleon his final defeat.

ANSWER: Battle of Waterloo

18. In a Hindu wedding ceremony, the parents of the bride sometimes perform this action on the groom, signifying his refreshment from a long journey to the wedding. In Christianity this practice is known as Maundy, as in the name of the Thursday before Easter, when Christ performed this action on his disciples. Celebrating Maundy Thursday in 2013, Pope Francis angered many conservative Catholics when he performed this action on two women, including a Serbian Muslim. FTP what is this cleaning ritual, which in Islam’s practice of wudu must be done three times up to the ankle?

ANSWER: foot washing (accept obvious equivalents)

19. A children’s tale by this author relates the efforts of the title boy to find a way to the town of Asaba and is titled *Chike and the River*. A short story by this author sees the modern-thinking teacher Michael and his wife Nancy close the title walkway because they think the villagers using it to cross school property are primitive, leading to his firing. “Dead Man’s Path” is a story by this author who told of the priest Ezeulu’s stubbornness and its effect of making the Igbo villagers of Umuaro convert to Christianity in his novel *Arrow of God*. FTP what Nigerian author also wrote of Okonkwo in *Things Fall Apart*?

ANSWER: Chinua Achebe

20. The transfer of these particles is central to Marcus theory, and they are emitted in the Auger [oh-ZHEY] effect. Nitro and cyano groups "withdraw" these particles from conjugated systems. The solvated type of these particles are responsible for the blue color when sodium is dissolved in liquid ammonia. Robert Millikan measured the charge of these particles in the oil drop experiment. Reducing agents can cause other substances to gain these particles, which are depicted in Lewis dot structures. For 10 points, name these negatively charged particles that orbit the nucleus.

ANSWER: electrons

Delta Burke 2013
Round 3 Bonuses

1. This system is used in HTML to indicate colors on web pages. For 10 points each:

[10] Name this system that uses the numerals 0 through 9 and A through F.

ANSWER: hexadecimal [or hex; or base sixteen]

[10] Pencil and paper ready. 256 in base ten equals this value in base sixteen.

ANSWER: 100

[10] This computer scientist, who wrote *The Art of Computer Programming* and developed the TeX system, pays one "hexadecimal dollar" for every error found in his books.

ANSWER: Donald Knuth

2. The Talmud lists 39 actions that are prohibited on the Jewish form of this day, which ends with the havdalah blessing. FTPE:

[10] Name this day of worship that is observed weekly by most Christians on Sunday.

ANSWER: the Sabbath (accept Shabbat)

[10] This eight-letter word refers to the 39 actions that are prohibited on Shabbat. The actions include plowing, weaving threads, and extinguishing a fire.

ANSWER: melakhot

[10] The Jewish Shabbat begins before sunset Friday evening, when practitioners perform this act. Catholics can perform this action during mass to indicate they are praying for something specific.

ANSWER: lighting a candles

3. The character John Singer has this disability in the novel *The Heart Is a Lonely Hunter*. FTPE:

[10] What disability is also suffered by the boy narrator of the Ambrose Bierce story "Chickamauga," keeping him from recognizing wounded soldiers who approach him from behind?

ANSWER: deafness

[10] *The Heart Is a Lonely Hunter* was written by this Southern author of *The Member of the Wedding*.

ANSWER: Carson McCullers

[10] Ambrose Bierce wrote this classic short story in which Peyton Farquhar imagines escaping from his hanging at the title location.

ANSWER: "An Occurrence at Owl Creek Bridge"

4. His namesake quartet originally included Bob Bates on bass and Joe Dodge on drums. FTPE:

[10] Name this jazz pianist and composer whose namesake quartet released *Time Out*, which contains "Blue Rondo a la Turk" and "Take Five," both of which have unusual time signatures.

ANSWER: Dave Brubeck

[10] "Take Five" was written by Paul Desmond, who played the alto type of this instrument. John Coltrane and Charlie Parker played this instrument, which also comes in soprano and tenor types.

ANSWER: saxophone [or sax]

[10] "Blue Rondo a la Turk" is a play on this Austrian composer's "Rondo alla Turca," which is the nickname of the final movement of his eleventh piano sonata.

ANSWER: Wolfgang Amadeus Mozart

5. Business-friendly historians tried to replace this term with the appellation “industrial statesmen.”

FTPE:

[10] What derogatory two-word term was used to describe super-rich business leaders in the US in the Gilded Age?

ANSWER: robber barons

[10] One man tagged as a “robber baron” was this Scottish-born steel magnate who preached the “Gospel of Wealth.”

ANSWER: Andrew Carnegie

[10] This plutocratic financier arranged the merger of Carnegie’s steel concern with US Steel to create the first billion-dollar corporation. His name lives on as part of the name of the largest bank in the US.

ANSWER: J.P. Morgan

6. Answer the following about Barack Obama's Cabinet, for 10 points each.

[10] This man, who lost the 2004 presidential election, is the current Secretary of State.

ANSWER: John Kerry

[10] Penny Pritzker is the current holder of this position. John Bryson and Gary Locke are previous holders of this position during Obama's presidency. Judd Gregg and Bill Richardson both withdrew their nominations for this position in 2009.

ANSWER: Secretary of Commerce

[10] This man, a former US Senator from Nebraska, is the current Secretary of Defense despite being an anti-Semite for saying that the Jewish lobby intimidates a lot of people on Capitol Hill.

ANSWER: Chuck Hagel

7. This alloy is created in the open-hearth process and the basic oxygen process. For 10 points each:

[10] Name this strong alloy of iron and carbon whose "stainless" type is resistant to corrosion.

ANSWER: steel

[10] A blast of air is forced through iron in this steel making process named for an Englishman.

ANSWER: Bessemer process

[10] Stainless steel is composed of at least ten percent of this chemical element, which is also responsible for the red color of rubies and the green color of emeralds.

ANSWER: chromium [prompt on "Cr"]

8. Aristophanes’ speech in this work suggests that humans used to have doubled bodies, but were split by Zeus when they attempted to attack Olympus. FTPE:

[10] What Platonic dialogue describes a drinking party for the poet Agathon?

ANSWER: Symposium

[10] Plato’s Symposium sees Socrates suggest that this feeling is vulgar when directed only at good looking people for sex but divine when used to approach the divine, later termed its “Platonic” form.

ANSWER: love (accept “eros”)

[10] Phaedrus defends homosexual love in the Symposium with reference to this figure, whom he says was really the younger beloved of Patroclus, whose death he avenged by killing Hector.

ANSWER: Achilles

9. Natsume Soseki wrote a novel from the point of view of one of these animals belonging to Mr. Sneaze. FTPE:

[10] What animals are Rum Tum Tugger and Old Deuteronomy in a collection of poems by T.S. Eliot?

ANSWER: cats

[10] The gun-toting cat Behemoth accompanies the devil to Moscow in this novel by Mikhail Bulgakov.

ANSWER: *The Master and Margarita*

[10] This feline from *Alice's Adventures in Wonderland* disappears except for its grin in one scene.

ANSWER: Cheshire Cat

10. The earliest form of this procedure was instituted by Emperor Wu, and later it grew to encompass the Six Arts and Five Studies. FTPE:

[10] What is this barrier test for entry into administrative and bureaucratic positions in China?

ANSWER: Chinese Civil Service Examination or Imperial Examination

[10] The Qing Dynasty eliminated the Imperial Examination process after this revolt against foreign influence in China in 1901.

ANSWER: Boxer Rebellion

[10] A more Westernized iteration of an administrative exam was instituted in 1911 by this co-founder of the Kuomintang and first leader of the Republic of China.

ANSWER: Sun Yat-Sen

11. Robert Paine developed this concept using the sea star *Pisaster ochraceus*. For 10 points each:

[10] Name this species whose role has a disproportionately large effect on other organisms despite not being especially abundant in a community.

ANSWER: keystone species or predator

[10] The sea star *Pisaster ochraceus* is a member of this phylum, whose other marine invertebrate members include sea cucumbers and sea urchins.

ANSWER: Echinodermata [or echinoderms]

[10] Another keystone species is the sea otter, which preys on sea urchins, which destroy "forests" of this large, brown, cold-water seaweed that is a member of the order Laminariales.

ANSWER: kelp

12. This work was sponsored by the US Office of War Information, and its author didn't visit its subject nation. FTPE:

[10] What 1946 anthropological work examined Japanese culture from a US perspective?

ANSWER: *The Chrysanthemum and the Sword*

[10] This author of *Zuni Mythology* wrote *The Chrysanthemum and the Sword*.

ANSWER: Ruth Benedict

[10] Benedict argued that the US was a "guilt culture" while Japan illustrated this type of culture, in which control is exerted through exterior social forces.

ANSWER: shame culture

13. It's time to note what Hindu deity is holding what, FTPE:

[10] This deity holds a trident in his right hand. He also usually has some drums symbolic of his Nataraja form, the Lord of Dance.

ANSWER: Shiva [also accept Mahadeva, Mahesh, or Bholenath]

[10] This seventh avatar of Vishnu and namesake of an epic poem can often be seen holding an arrow in his right hand and a bow in his left.

ANSWER: Rama [also accept Ram]

[10] A sword and a severed head are among the objects held by this death-goddess avatar of Parvati.

ANSWER: Kali [also accept Kalika]

14. Two prominent members of this movement were Richard Aldington and his wife, H.D. FTPE:

[10] What early 20th-century poetry movement's manifesto called for the presentation of concrete details as exemplified by the poem "In a Station of the Metro"?

ANSWER: Imagism

[10] Imagism's leading advocate was this author of the Cantos who also edited "The Waste Land" for T.S. Eliot.

ANSWER: Ezra Pound

[10] Another expectation of Imagism according to its manifesto is that poems should be written in this form, describing poetry with no meter or rhyme.

ANSWER: free verse

15. Russia has a fairly interesting history with Afghanistan. FTPE:

[10] The Great Game was a protracted power struggle between Russia and this other nation for supremacy in Afghanistan and the rest of Central Asia.

ANSWER: Britain (accept British Empire or United Kingdom, prompt on "England")

[10] In 1979, the USSR invaded Afghanistan under the leadership of this bushy-eye browed premier whose namesake "Doctrine" led to the invasion of Czechoslovakia to quell the Prague Spring.

ANSWER: Leonid Brezhnev

[10] In order to help against the Soviet invasion America supplied weapons to many mujahideen, allegedly including this man who would later found al-Qaeda.

ANSWER: Osama bin Laden

16. The one-time gold rush town of Kalgoorlie is in this largest state of its nation. FTPE:

[10] What Australian state comprises the western coast of that nation?

ANSWER: Western Australia

[10] Western Australia's state capital and largest city is this birthplace of Heath Ledger and AC/DC's original singer Bon Scott.

ANSWER: Perth

[10] Western Australia's western coast lies on this huge body of water.

ANSWER: Indian Ocean

17. Pakhom, the protagonist of this short story, dies after enclosing a large square of land. FTPE:

[10] What Russian story's title question is answered with a distance of six feet, the size of the grave Pakhom is chucked into at the end?

ANSWER: "How Much Land Does a Man Need?"

[10] "How Much Land Does a Man Need" is a story by this author of the slightly better known *War and Peace*.

ANSWER: Leo (Lev) Tolstoy

[10] Before dying, the title character of this short novel by Tolstoy realizes that his butler, Gerasim, has lived a more authentic life than he, because of his capacity for sympathy and kindness.

ANSWER: *The Death of Ivan Ilyich*

18. Answer the following about springs and pendulums, for 10 points each.

[10] Springs are governed by this law, which states that the restoring force is proportional to the displacement. This law is named for the English scientist who coined the term "cell."

ANSWER: Hooke's law

[10] This quantity for a spring can be calculated as the square root of the quantity spring constant divided by mass. This quantity, symbolized lowercase omega, is measured in radians per second.

ANSWER: angular frequency [or angular speed; or angular velocity; or orbital frequency]

[10] If the frequency of a pendulum is three times greater on planet XYZ than it is on Earth, then the gravitational constant on planet XYZ is this many times greater.

ANSWER: nine

19. The origins of this route lay with the Lewis and Clark expedition. FTPE:

[10] What pathway for westward migration followed the Platte and Snake Rivers before ending in a namesake territory in the Pacific Northwest?

ANSWER: Oregon Trail

[10] The California Trail, which used the first half of the Oregon Trail, was built mainly by men spurred by news of the find of this substance at Sutter's Mill near Sacramento.

ANSWER: gold

[10] In 1847 an expedition of Mormons left Nauvoo, Illinois, on the Oregon Trail heading to what's now Utah; that expedition was led by this man.

ANSWER: Brigham Young

20. A huge 1965 Georgia O'Keeffe painting of "The Sky above" these entities hangs in a stairwell at the Art Institute of Chicago. FTPE:

[10] What fluffy entities were photographed by O'Keeffe's husband in his *Equivalent* series?

ANSWER: clouds

[10] Huge cloud formations can be seen in a series of John Constable paintings of this cathedral with a large spire that is located in its namesake English city.

ANSWER: Salisbury Cathedral

[10] A woman suckles a baby and dark clouds loom ominously in this Giorgione [jawr-JOH-nee] painting, which shares its name with an alternate title for Oskar Kokoschka's *The Bride of the Wind*.

ANSWER: *The Tempest*