

Valencia Delta Burke Invitational 2013
Round 5

1. A poem about this profession sees the speaker ask “Where’s SARDINES?” and sees him describe writing 12 poems about “orange.” That poem is Frank O’Hara’s “Why I Am Not [one of these people].” Another poem that references this profession begins by referencing “the right hand/Bigger than the head.” That John Ashbery poem also quotes from Vasari. A poem that describes “how everything turns away quite leisurely from the disaster” draws on the work of one of these men and begins, “About suffering they were never wrong, the old Masters.” For 10 points, name this profession, discussed in “Self-Portrait in a Convex Mirror” and Auden’s “Musee des Beaux Arts,” which is based on Breughel’s *Landscape with the Fall of Icarus*.

ANSWER: painters [or painting or artists, but don’t accept things like sculptor or fireman]

2. A type of vegetation called fynbos is found in this country, which is also home to the Karoo [*kuh-ROO*], a semi-arid plateau. This country extracts natural gas offshore of Mossel Bay, and its city of Germiston is a railroad hub. North West is one of this country's nine provinces, and Venda is one of its eleven official languages. A political prison was once located on Robben Island seven miles offshore of this country. Swaziland is mostly surrounded by this country, and Lesotho is completely surrounded by it. For 10 points, name this country whose cities include Pretoria, Cape Town, and Johannesburg.

ANSWER: South Africa [or Suid-Afrika]

3. The element with this atomic number has the highest value on the Pauling electronegativity scale. A collection named for this number includes a story in which Sergeant X receives a package from Charles and Esme that includes a letter and a wristwatch. Louis XIV was opposed by the League of Augsburg in a war named for this number of years. The religion Bahai is often represented by a star with this number of points, and the figure Heimdall from Norse myth was the son of this number of mothers. Beethoven's symphony of this number includes the "Ode to Joy" melody in its final movement. For 10 points, name this number whose square root is three.

ANSWER: nine

4. One king of this country committed suicide in 1820 by shooting himself with a silver bullet rather than face a coup. A more recent ruler of this country ordered the deaths of all black dogs due to the shape-shifting abilities of a rival. That ruler of this country was served by his brutal secret police force known as the Tonton Macoutes. This country once led by Papa Doc Duvalier fought for independence under Henri Christophe, Jean-Jacques Dessalines, and Toussaint L’Ouverture. FTP, name this Caribbean country on the western side of the island of Hispaniola.

ANSWER: Haiti

5. The enzyme LCAT catalyzes the formation of an ester from this compound. Intermediates in the synthesis of this compound include squalene [*SKWAY-leen*] and mevalonate [*muh-VAL-uh-nate*], the latter of which is produced by HMG-CoA reductase. Vitamin D is formed from the 7-dehydro form of this compound, which reduces membrane fluidity. This compound, which is transported to the liver by high-density lipoprotein, is linked to heart disease. For 10 points, name this compound whose amount in the blood is lowered by statins such as Crestor and Lipitor.

ANSWER: cholesterol

6. This figure's namesake rune in Old English associates him with the North Star. Odin most likely inherited the mantle of "god of the hanged" from this god, who used to administer justice. Loki threatens to seduce his wife in the *Lokasenna*, and an action he undertook that involved Gleipnir led to his nickname "leavings of the wolf." The Prose Edda states he will kill and be killed by Hel's guard dog, Garm. Having lost his hand during the binding of Fenrir, FTP who is this one-handed Norse god of war?

ANSWER: Tyr

7. One member of this family lost a 1950 US Senate race to William Benton in Connecticut partly due to his being treasurer of Planned Parenthood. One of the grandsons of that member of this family, Prescott, was on the board of the Silverado Savings and Loan during the S&L scandals of the late 80s; one of Neil's brothers is head of the Foundation for Excellence in Education, a right-wing group pushing for more charter schools and testing. Their father referred to Ronald Reagan's supply-side plan as "voodoo economics" in the 1980 primary before becoming Reagan's vice-president. FTP what family includes former Florida governor Jeb as well as presidents 41 and 43?

ANSWER: Bush family

8. The three translational oscillations of this region are called the Slichter triplet. The anisotropy of this region was studied using PKIKP travel times. Discovered by Inge Lehmann, this region has a radius of about 1200 kilometers and a temperature comparable to the Sun's surface. This region is located below the layer that is responsible for Earth's magnetic field. This solid layer primarily consists of a nickel-iron alloy. For 10 points, name this layer that is surrounded by the outer core.

ANSWER: inner core [prompt on "core"]

9. In one narrative poem by this author, the title Roman noblewoman commits suicide after being raped by Tarquin. In another poem, this author described the funeral of two birds whose love was so powerful their cremation yields the birth of a more beautiful bird. This author of *The Rape of Lucrece* and *The Phoenix and the Turtle* created a character based on the knight John Oldcastle who was so popular with Queen Elizabeth that she wished to see that character "in love." FTP what author thus used Falstaff in his *The Merry Wives of Windsor*, a playwright of other plays such as *Othello* and *The Tempest*?

ANSWER: William "Dollar Bill" Shakespeare

10. Beethoven's thirteenth string quartet has this number of movements, and the piece "Chi mi frena in tal momento" from *Lucia di Lammermoor* has this number of singers. A symphony of this number by Mahler contains three hammer blows of fate. F-sharp major has this number of sharps, and a whole tone scale has this number of notes. Tchaikovsky's *Pathétique Symphony* and Beethoven's *Pastoral Symphony* also share this number. Darius Milhaud was in a group of French composers named for this number. For 10 points, name this number of instruments in a sextet.

ANSWER: six

11. Robert Nozick used his “experience machine” argument to refute the idea that humans value this state above all others. Aristotle argued that this state comes from the exercise of virtue and was the only thing truly of value in and of itself, as characteristics like wisdom, wealth, and strength were of value only in relation to other things. Aristotle’s term “eudaimonia” is traditionally translated as equivalent to this state. FTP what is this state of being sought by the hedonists, a state of extreme satisfaction?

ANSWER: happiness (accept “contentment” or “well being” anytime; accept “pleasure” before “eudaimonia” is read)

12. This man fought in a war that was ended by the Treaty of Knared, and this man’s country regained control of Livonia from Poland thanks to the Truce of Altmärk. This veteran of the Kalmar War was advised by Axel Oxenstierna. This man constructed a pontoon bridge to cross the Lech River, and this victor at the Battle of Rain died while defending Saxony from Albrecht Wallenstein at the Battle of Lützen. This king had earlier defeated Catholic forces under Count Tilly at the Battle of Breitenfeld. Known as the “Lion of the North,” FTP, name this man who led Sweden during the Thirty Years’ War.

ANSWER: Gustavus Adolphus or Gustav II Adolf

13. The effect of the use of gutters in this artistic medium was compared to juxtaposition in haiku by Scott McCloud, who wrote books about “Understanding” and “Reinventing” this medium. Dr. Frederick Wertham’s specious testimony to a Senate subcommittee that this medium created “fantasies of sadistic joy” led publishers of works in this medium to create a censorious code forbidding words like “horror” and “crime” in titles of works in this medium; that code led one popular EC title featuring mascot Alfred E. Neuman to rebrand itself a “magazine.” Roy Liechtenstein often used panels from, FTP, what type of text and image media often featuring superheroes like Superman and Batman?

ANSWER: comic books (accept “comics”)

14. Blue dextran is used as a void volume marker in a form of this technique. Lipids are transferred to a membrane after this technique is performed in a far-eastern blot. In this technique, the theoretical plate height is calculated using the van Deemter equation. In one form of this technique, the Kovats index and a flame ionization detector are used. In another form of this technique, the distance traveled by a sample is divided by the distance traveled by a solvent front to calculate the retention factor. This technique, which makes use of stationary and mobile phases, has size exclusion and thin-layer forms. For 10 points, name this method of separating mixtures.

ANSWER: chromatography [accept specific forms]

15. This author wrote, “only the snow can begin to explain how children are apt to forget to remember” in a poem that repeats the line, “sun moon stars rain”. He described a character “who used to ride a watersmooth-silver stallion” in a poem that ends by asking, “how do you like your blueeyed boy Mister Death”. This author created a “conscientious object-or” who is described as “more brave than me:more blond than you.” This author wrote about one character that “he sang his didn’t he danced his did”. For 10 points, name this poet of “Buffalo Bill’s”, “anyone lived in a pretty how town” and “i sing of olaf glad and big”, who often ignored punctuation and grammar.

ANSWER: ee cummings

16. In “Desolation Row” Bob Dylan sings that this cultural figure “seems so easy,” then oddly pairs her with Romeo. In a song from the album *Bad*, Michael Jackson sings that this figure is “his princess” in a song asking her to “Stay Awhile.” In The Wallflowers’ hit “One Headlight,” Jakob Dylan says that “me and [this figure] put it all together.” The glam metal band named for this cultural figure is best known for its hit “Don’t Know What You Got (Til It’s Gone).” FTP what fairy tale figure was animated in a 1950 movie featuring songs like “A Dream is a Wish Your Heart Makes” and “Bibbidi-Bobbidi-Boo”?

ANSWER: Cinderella

17. One of these beings is represented in the Womb Realm by the Wisdom King Gundari, while another of these beings made the forty-eight vows, in which he promises to appear before anyone who calls upon him at the moment of death. The most famous of these persons declared that, “all is burning,” in the Fire Sermon, which is included in the Pali Canon. The Pure Land Sect worships the Amitahba form of this being, while another form of this being espoused the Four Noble Truths. With a name meaning “Enlightened One,” FTP, name these figures, which include one who was born Siddhartha Gautama.

ANSWER: Buddhas

18. A political party named for this was able to get two governors elected in Nevada in the early 20th century. William Hope Harvey’s pamphlet Coin’s Financial School argued against the “Crime of ‘73” named for an act that led to sharp decline in the price of this; that decrease led to the passage of the Bland-Allison Act, which ordered purchase of this substance by the US Treasury. That act was superseded by 1890 legislation named for an Ohio senator that increased government purchases of this, but didn’t provide for its “free coinage.” FTP a “purchase act” named for John Sherman called for US support of what precious metal?

ANSWER: silver

19. In a 2007 paper, this man explained inflation using the no boundary proposal with volume weighting. Along with Hartle, this man names a proposal for the initial state of the universe. This man published a paper with Roger Penrose that argued the universe started with a singularity. The chapter “Black Holes Ain’t So Black” appears in a book by this man, who is also the namesake of the radiation emitted by black holes. For 10 points, name this theoretical physicist who wrote *A Brief History of Time* despite being wheelchair bound as a result of the disease ALS.

ANSWER: Stephen Hawking

20. The protagonist of this work imagines that the branches of a rowan tree are the arms of his lover in one scene. Earlier, while ill, he is brought bread and butter and coffee by his half-brother Evgraf. This work sees the protagonist abducted by Liberius and the Forest Brotherhood before Strelnikov commits suicide. The protagonist of this novel writes the poems “Bad Roads in Spring” and “Hamlet” but dies riding a tram to work at the Botkin Hospital. This work centers on the love between the title character and a wife of Pasha Antipov named Lara. For 10 points, name this novel by Boris Pasternak.

ANSWER: Doctor Zhivago

Delta Burke 2013
Round 5 Bonuses

1. The decision in this Supreme Court case confirmed that Congress can regulate interstate trade. FTPE:

[10] What 1824 decision voided an agreement in New York that granted exclusive navigation rights to Robert Fulton and Robert Livingston?

ANSWER: Gibbons v. Ogden [accept either]

[10] Fulton used the engine developed by James Watt to invent the first commercially viable form of this type of water vessel, one of which was later piloted by Mark Twain.

ANSWER: steamboat

[10] John Marshall cited this clause of the Constitution in his decision in *Gibbons v. Ogden*, arguing that it gives Congress the power to regulate interstate trade.

ANSWER: Commerce Clause

2. This conception defines knowledge as that which can be verified. FTPE:

[10] What is this scientific philosophy formulated by August Comte, which also featured a 20th century “logical” version?

ANSWER: positivism

[10] The logical positivists included Rudolf Carnap and Kurt Godel (ger-del) in a “circle” formed in this Central European city.

ANSWER: Vienna

[10] As opposed to positivism, Karl Popper argued that scientific theories shouldn’t aspire to verification but should include the seeds for its own refutation, a process known as this.

ANSWER: falsificationism or falsifiability

3. The trammel of Archimedes is a device that can be used to draw this conic section, whose parametric equation is $x \text{ equals } a \text{ times cosine theta}$ and $y \text{ equals } b \text{ times sine theta}$. FTPE:

[10] Name this conic section that has an eccentricity between zero and one.

ANSWER: ellipse

[10] The first law of planetary motion developed by this early 17th century German astronomer states that the shape of the orbit of each planet is an ellipse with the Sun at one focus.

ANSWER: Johannes Kepler

[10] Pencil and paper ready. In terms of pi, calculate the area of an ellipse with the following equation: $(x^2/9) + (y^2/4) = 1$. You have ten seconds.

ANSWER: six pi

4. He is the only Arabic-language writer to have won a Nobel Prize in literature. FTPE:

[10] Who is this Egyptian author of a trilogy comprising *Palace Walk*, *Palace of Desire*, and *Sugar Street*?

ANSWER: Naghuib Mahfouz

[10] The above-mentioned trilogy by Mahfouz is titled for this largest Egyptian city.

ANSWER: Cairo

[10] Mahfouz’s novel *The Day the Leader Was Killed* describes a man who kills his boss on the same day that this real-life Egyptian president was assassinated in 1981.

ANSWER: Anwar Sadat

5. Answer the following about some elections that took place on November 5th, for 10 points each.

[10] This morbidly obese man defeated Barbara Buono to remain governor of New Jersey.

ANSWER: Chris Christie

[10] Bill de Blasio defeated Joe Lhota to become this city's first Democratic mayor since 1993.

ANSWER: New York

[10] Dean Young, who actually believes President Barack Obama was born in Kenya, received 48% of the vote, but lost to Bradley Byrne in a congressional district special election in this state.

ANSWER: Alabama

6. C. Wright Mills examined the relations between individuals and their “milieu” in a book about this discipline’s “imagination.” FTPE:

[10] What is this discipline that studies class, culture, institutions and interactions among people?

ANSWER: sociology

[10] Mills examined the alienation of the 1950s company man in this book titled for a metaphor for office work, as opposed to physical labor.

ANSWER: White Collar: The American Middle Classes

[10] Emile Durkheim originated this sociological perspective, arguing that a society is like a body with various parts playing various roles. It is sometimes preceded by the adjective “structural.”

ANSWER: functionalism

7. The main character of this film pawns bed sheets and gets a job hanging posters. FTPE:

[10] Name this film in which a two-wheeled object belonging to Ricci is stolen.

ANSWER: The Bicycle Thief [or Bicycle Thieves; or Ladri di biciclette]

[10] *The Bicycle Thief* is set in this country, as is the Roberto Rossellini film *Rome, Open City*.

ANSWER: Italy [or Italia]

[10] *The Bicycle Thief* was initially released in this decade. Other films initially released in this decade include one in which "Rosebud" refers to a sled, and another partially set in Rick's Cafe.

ANSWER: 1940s

8. Electrons in these subshells have a value of zero for the azimuthal quantum number. FTPE:

[10] Name these spherical shaped subshells that usually fill up before *p* subshells.

ANSWER: s subshells

[10] This maximum number of electrons that can exist within the *s* subshell is this value, which is also the number of possible values for the spin quantum number of an electron.

ANSWER: two

[10] The valence electron configuration of this chemical element, which violates the Aufbau principle, is four *s* one, three *d* ten. Ions of this element make up Benedict's reagent.

ANSWER: copper

9. This deity created the first man Gayomart, whose son Siyamak was killed by this god's nemesis. FTPE:

[10] Name this enemy of Ahriman who is the chief deity of a religion founded by a Persian prophet.

ANSWER: Ahura Mazda

[10] The struggle between Ahura Mazda's Amesha Spentas and Ahriman's daevas is central to this Persian religion whose sacred text is the *Zend Avesta*.

ANSWER: Zoroastrianism or Parsi

[10] In Zoroastrianism the bodies of the dead are put to rest at the tops of these edifices, where their bodies are exposed to the elements and scavenging birds.

ANSWER: Towers of Silence (or dakhma)

10. Evidence of cultivation of this grain appears as early as 6750 BCE in India. FTPE:

[10] What is this staple grain of Asia, second only to corn in world production and consumption?

ANSWER: rice

[10] Potsherds containing rice grains have been found at Harappa and this other Indus Valley city.

ANSWER: Mohenjo-Daro

[10] Rice's popularity in Italy can be seen in its exemption from excise tax by the Council of Ten in this city ruled by a series of doges [doh-zhes].

ANSWER: Venice

11. Like Jethro Tull's Ian Anderson, this humpbacked fertility god was known for his unique instrument. FTPE:

[10] Who was this trickster that Hopi women were said to avoid, fearful that he might bring them a child?

ANSWER: Kokopelli

[10] Versions of this unique instrument are commonly attributed to both Ian Anderson and Kokopelli. Debussy's *Syrinx* was written for solo players of it.

ANSWER: flute [derisively scold someone who says something like "pan pipe"]

[10] According to the Winnebago peoples, Kokopelli was able to detach this part of his body which he was said to send down rivers to unsuspecting lady-folk.

ANSWER: phallus [accept, uh, reasonable equivalents]

12. This 2006 novel is set in the South after a nuclear apocalypse and was turned into a 2009 movie starring Viggo Mortensen. FTPE:

[10] In what novel do the nameless father and son walk through a blasted landscape to the ocean?

ANSWER: The Road

[10] What author of *Blood Meridian* wrote *The Road*, as well as *The Border Trilogy*, the first book of which is *All the Pretty Horses*?

ANSWER: Cormac McCarthy

[10] In McCarthy's novel *The Crossing*, protagonist Billy Parham returns one of these animals to the wild in Mexico. Another fictional animal of this type is Akela, who raises Mowgli in *The Jungle Book*.

ANSWER: wolf

13. This river flows from Lake George to its mouth on the Atlantic in Duval County. FTPE:

[10] What north-flowing river, named for a gospel author, is the longest in Florida?

ANSWER: St. John's River

[10] The St. John's River bisects this city that comprises most of Duval County, making it the largest city by area in the lower 48 states.

ANSWER: Jacksonville

[10] The St. John's is a "blackwater river," its water darkened by these astringent organic compounds.

ANSWER: tannins

14. This man names an interferometer along with Ludwig Zehnder, and in a debate with Ludwig Boltzmann, this Austrian once declared "I don't believe that atoms exist." For 10 points each:

[10] Name this scientist whose namesake number is velocity divided by the speed of sound.

ANSWER: Ernst Mach

[10] The speed of sound is equal to the square root of this modulus divided by density. It is equal to the quantity force over area divided by the quantity change in volume over volume.

ANSWER: bulk modulus

[10] A modulus named for this man equals force over area divided by change in length over length. An experiment performed by this Englishman in 1801 revived the wave theory of light.

ANSWER: Thomas Young

15. This type of composition is exemplified by the Orlando Gibbons piece "This Is the Record of John" and was considered the Anglican version of the Latin motet. For 10 points each:

[10] Name this composition whose "coronation" type was composed by Handel for the 1st Duke of Chandos and George II, and whose "national" ones include "La Marseillaise" and "O Canada."

ANSWER: anthems

[10] The national anthem of Israel shares its melody with *The Moldau* by this Czech composer, who also created the opera *The Bartered Bride* and a string quartet subtitled "From My Life."

ANSWER: Bedrich Smetana [*SME-tah-nah*]

[10] *My Heart Is Inditing* is a coronation anthem for James II that was composed by this Englishman, whose opera *Dido and Aeneas* contains the aria "When I am laid in Earth."

ANSWER: Henry Purcell [*PUR-suhl*]

16. This person created the newspaper *The Revolution* in 1868, advocating for female co-education and the eight-hour workday. FTPE:

[10] What suffragette was arrested for attempting to vote in the 1872 presidential election and had her likeness engraved on a dollar coin in the early 1980s?

ANSWER: Susan B. Anthony

[10] In 1863 Anthony co-founded the Women's National Loyal League to fight for abolition with this woman, better known for organizing the Seneca Falls Convention with Lucretia Mott.

ANSWER: Elizabeth Cady Stanton

[10] As Anthony didn't attend the Seneca Falls Convention, she wasn't a signatory of this document promulgated there and written by Stanton, calling for equal rights for women and other minorities.

ANSWER: Declaration of Sentiments and Resolutions

17. This poet described a female cursed to look at her loom and not the world in “The Lady of Shalott.” FTPE:

[10] Who wrote about an “idle king” who wishes “to strive, to seek, and not to yield” in “Ulysses”?

ANSWER: Alfred, Lord Tennyson

[10] Tennyson called his friend Arthur Henry Hallam a “strong son of god” in this long poem eulogizing him.

ANSWER: “In Memoriam”

[10] Tennyson criticized a headlong rush of mounted soldiers during the Battle of Balaclava, noting that “someone had blunder’d.”

ANSWER: “The Charge of the Light Brigade”

18. Alexander Suvorov is often given credit for putting down this rebellion, but didn’t actually arrive until after its leader was captured. FTPE:

[10] Name this Russian rebellion whose Cossack leader captured Kazan before he was defeated at Tsaritsyn.

ANSWER: Pugachev’s Rebellion

[10] Pugachev’s Rebellion occurred during the rule of this Empress, who ascended to the throne following the death of her husband Peter III and signed the Treaty of Kuchuk Kainarji.

ANSWER: Catherine the Great (or Catherine II)

[10] Catherine placed her lover Stanislaw Poniatowski on the throne of this country. This country later gave land to Russia, Prussia, and Austria as part of its First Partition.

ANSWER: Poland (accept Polish-Lithuanian Commonwealth)

19. This poet wrote two full biographies of Abraham Lincoln. FTPE:

[10] What poet described Chicago as a “husky, brawling, city of the big shoulders”?

ANSWER: Carl Sandburg

[10] Sandburg described this phenomenon coming in “on little cat feet” in a very short poem.

ANSWER: fog

[10] Sandburg’s poem “Planked Whitefish” describes atrocities in this war, in which the American poet Joyce Kilmer was killed.

ANSWER: World War I

20. This fluid contains nitrogenous compounds such as urea, and is excreted by the kidneys. FTPE:

[10] Name this liquid waste matter that is discharged through the urethra.

ANSWER: urine [accept equivalents]

[10] This autosomal recessive disorder is caused by a deficiency of the enzyme that converts the amino acid symbolized F into tyrosine. Sufferers of this disorder have a musty odor to their urine.

ANSWER: PKU [or phenylketonuria]

[10] This other disorder is caused by a defect in an enzyme that results in the inability to degrade branched amino acids. Patients with this disorder have a namesake odor to their urine.

ANSWER: maple syrup urine disease [or MSUD; or branched-chain ketoaciduria]