

Valencia Delta Burke Invitational 2013
Round 6

1. Walter Gieseking's 1945 recording of one work by this composer includes the sound of antiaircraft guns in the background during the first-movement cadenzas. Wagner called this man's seventh symphony the "apotheosis of dance." Johann Cramer gave his fifth piano concerto the nickname "Emperor", and his other nicknamed pieces include his third symphony, the "Eroica." The opening theme of this man's fifth symphony is often described as "fate knocking at the door." For 10 points, name this composer of the "Pastoral" and "Choral" symphonies.

ANSWER: Ludwig van Beethoven

2. Controversy embroiled a minister of this religion named James Nayler when he entered the city of Bristol in imitation of Christ's entry into Jerusalem. This religion's preacher Elias Hicks discounted the divine nature of Christ, proposing instead that Christ had achieved divinity through complete obedience to the Inner Light possessed by all men. Founded by George Fox, FTP, name this Christian sect whose members included William Penn and whose nickname refers to their practice of trembling during prayer.

ANSWER: Quakers (or the Religious Society of Friends)

3. Security guards from this entity beat union organizers in a 1937 incident called The Battle of the Overpass. The "Whiz Kids" were a group of ten Army Air Force vets, including Robert McNamara, who helped revitalize this organization after World War II. The founder of this company published the anti-Semitic pamphlet "The International Jew" and founded his own newspaper, *The Dearborn Independent*. Losing millions on its 1958 launch of the Edsel was, for 10 points, what automaker behind the Taurus and Mustang?

ANSWER: Ford Motor Company

4. The wild boy Noboru watches his mother having sex with Ryuji in a novel by this author. The protagonist of this author's second novel is devastated to learn that the knight in a picture book he has adored as a symbol of masculinity is actually Joan of Arc. *The Sailor Who Fell from Grace with the Sea* and *Confessions of a Mask* are novels by this author whose short story "Patriotism" describes men who commit ritual seppuku following a failed coup, foreshadowing this author's own suicide. FTP what Japanese author of *The Temple of the Golden Pavilion* killed himself on the roof of the Japanese Self-Defense Forces building in 1968?

ANSWER: Yukio Mishima

5. Liberty, Equality and Fraternity are the namesakes of the arcs surrounding this object. Two-tinos are named for their 1:2 resonance with this object, and Mark Showalter recently discovered its fourteenth moon. Cantaloupe terrain is found on this planet's largest moon, which has a retrograde orbit. Visited by Voyager 2 in 1989, this planet can perturb scattered disk objects. Johann Gottfried Galle [*GAL-eh*] discovered this planet and is the namesake of its innermost ring. This planet was once home to a storm known as the Great Dark Spot, and is named for the Roman god of the sea. For 10 points, name this planet that is orbited by Triton and located beyond Uranus.

ANSWER: Neptune

6. A 15th-century holder of this position is the namesake of the fallacy known as Morton's fork, in which contradictory arguments lead to the same conclusion. The first holder of this position was sent on a mission to establish it by Pope Gregory the Great and was named Augustine. The penultimate holder of this position was Rowan Williams, who resigned in 2012 partly due to his liberal attitude toward homosexuality in his church. The most famous holder of this position was killed by four knights on the possibly misinterpreted words of Henry II. FTP Thomas a Becket held what position, head of the Anglican Communion?

ANSWER: Archbishop of Canterbury

7. Indigenous Dahomey people worshiped these creatures to the point of instituting the death penalty for killing one of them. The Khmer people claimed descent from these creatures, citing the marriage of Soma and Kaundinya as mythological origin. In Hindu mythology, the highest status that one of these creatures can attain is "naga." The Altuna Runestone depicts Thor using the head of an ox in an effort to capture one of these creatures that encircles the earth. The caduceus has two of, FTP, what reptilian tempter of Eve in the Garden of Eden?

ANSWER: snakes [accept synonyms, such as serpents]

8. This state provides the setting for the early Harriet Beecher Stowe novel *The Pearl of Orr's Island*, which was an inspiration to the author of the novels *Deephaven* and *A Country Doctor*, both set in this state. That woman wrote a short story set in this state in which Sylvy ultimately decides not to reveal the location of the title bird to a hunter. Along with "A White Heron," another author used the town of Gardiner in this state as the basis for his fictional Tilbury Town. FTP what state was home to Sarah Orne Jewett and Edwin Arlington Robinson, as well as horror novelist Stephen King?

ANSWER: Maine

9. The second Friedmann equation is sometimes named for this quantity and relates it to density plus three times the pressure. This quantity and charge are both squared in the numerator of the Larmor formula. A type of this quantity named for Fermi is experienced by a particle trapped between two magnetic mirrors. This quantity is the second derivative of position and the first derivative of velocity with respect to time. For 10 points, name this quantity measured in meters per second squared that appears in Newton's second law, and is equal to force divided by mass.

ANSWER: acceleration

10. This thinker discussed a line from Heine where a character says of Baron Rothschild, "He treated me quite as his equal—quite famillionairely" in developing a division between tendentious and non-tendentious humor. He discussed the difference between the death drive and libido in his *Beyond the Pleasure Principle* and later wrote a work which described the difference between manifest and latent content while analyzing "Irma's Injection" in relation to "wish fulfillment". For 10 points, name this developer of the theory of the id, ego, and superego, the author of *The Interpretation of Dreams*.

ANSWER: Sigmund Freud

11. The White City portion of this municipality was burned during the Salt Riot, and a Prince of this city defeated the Golden Horde at Kulikovo Field. One attempt to capture this city began with the launching of Operation Typhoon. This city was abandoned following the battle of Borodino, after which it was burned to the ground while occupied by Napoleon's troops. Princes of this city included Dmitri Donskoi and Ivan the Great, and its buildings include Saint Basil's Cathedral and one that contains the Chudov Monastery. FTP name this site of the Kremlin and capital of Russia.

ANSWER: Moscow

12. Lake Gatun provides over a billion gallons of water each day to this geographical feature, on the eastern side of which is Soberiana National Park. An update to the namesake max vessel using this waterway will allow more than double the current twenty-foot equivalent unit capacity through it in 2014. The work of Dr. Walter Reed to eradicate Yellow Fever greatly impacted the construction of this feature. Utilizing three locks to account for changes in sea level is, FTP, what man-made waterway connecting the Caribbean Sea and the Pacific through a namesake country?

ANSWER: Panama Canal

13. This location is the setting of a Diane Arbus photograph in which a boy holds a toy hand grenade. The sounds of nature which men would hear sitting on a bench in this location "In the Dark" was depicted in a Charles Ives composition titled for this place. This location was the site of an art installation by Christo and Jeanne-Claude that featured over seventy-five hundred gates. This location, which was designed by Calvert Vaux [VAWS] and Frederick Law Olmsted, is home to an obelisk known as Cleopatra's Needle. For 10 points, name this large park in Manhattan.

ANSWER: Central Park [prompt on less specific answers such as "Manhattan" or "NYC"]

14. Damage to this organ is indicated by Kehr's sign, which involves pain in the left shoulder. Reduced function of this organ is characterized by Howell-Jolly bodies. The arterioles of this organ are surrounded by cuffs of lymphocytes known as periarteriolar lymphoid sheaths. This organ is enlarged in patients with mononucleosis. In this organ, the marginal zone separates white pulp from red pulp. This organ is located in the left upper quadrant of the abdomen, and its function is to destroy worn-out red blood cells. For 10 points, name this organ that can rupture.

ANSWER: spleen

15. The speaker of this poem describes "impossible criminals with golden heads and the charm of reality in their hearts" before writing, "you bang on the catatonic piano the soul is innocent and immortal." One line is addressed to the "secret hero of these poems, cocksman and Adonis of Denver." Its second section begins by asking about a "sphinx of cement and aluminum" and frequently exclaims the word "Moloch!" The third section of this poem repeats the line "I'm with you in Rockland." It begins, "I saw the best minds of my generation destroyed by madness." For 10 points, name this poem, dedicated to Carl Solomon and written by Allen Ginsberg.

ANSWER: "Howl"

16. Idealist philosopher J.M.E. McTaggart developed A- and B-theories of this concept in a book titled for “The Unreality of” this concept. Kant argued that this a priori concept precedes and grounds all appearances, and further argued that free will could only exist outside this concept. That argument was rebutted in a work using an analogy of one spool unrolling into another to show the author’s concept of “duree” (durr-AY). Those two spools represented the relationship between aging and memory growth for Henri Bergson, FTP, in an argument regarding what concept, often paired with space?

ANSWER: time

17. This city saw police actions against a mostly African-American radical group led by John Africa, culminating in a gel bombing of their headquarters that burned over 60 nearby homes. Besides the bombing of the MOVE group, this city is home to the New Year’s Day festival called the Mummers Parade. Policeman Daniel Faulkner’s killing in this city led to a murder conviction for ex-Black Panther Mumia Abu-Jamal. Ed Rendell was mayor of this city before becoming his state’s governor, and Michael Nutter is current mayor. FTP what city is better known for early history, like hosting the first two Continental Congresses?

ANSWER: Philadelphia

18. This author included the *Dictionary of Received Ideas* as an appendix to a work about two copy-clerks named Bouvard and Pecuchet. In another of his novels Hanno and Spendius steal the Zaimph before being crucified at the end of the failed Carthaginian Mercenary Revolt. Senecal kills the Republican Dussardier in another of this man’s novels that features a friendship between the law student Charles Deslauriers and Frederic Moreau. This author wrote a novel in which the title wife of the country doctor Charles has affairs with Rodolphe Boulanger and Leon Dupuis. For 10 points, name this author of *Salamambo*, *A Sentimental Education*, and *Madame Bovary*.

ANSWER: Gustave Flaubert

19. This state's Racial Justice Act of 2009 was used, before it was repealed, by Marcus Robinson to set aside his death sentence. This state is home to the "Moral Monday" protests. Republicans in this state's legislature recently attached anti-abortion legislation to a motorcycle safety bill. During a 2008 US Senate election in this state, Elizabeth Dole called former Sunday school teacher Kay Hagan "godless." This state hosted the 2012 Democratic National Convention. For 10 points, name this state whose governor, Pat McCrory, lives in an executive mansion in Raleigh.

ANSWER: North Carolina

20. Barium and a member of this group are produced by one of the fission reactions that uranium-235 undergoes. Neil Bartlett created a new compound after reacting one member of this group with platinum hexa-fluoride. One type of radiometric dating is based on the decay of potassium into a member of this group that is the third most common element in Earth's atmosphere. Another member of this group is often found in advertising signs. The halogens are located to the left of this group on the periodic table. For 10 points, name this group of relatively inert elements that includes krypton, xenon, argon, neon, and helium.

ANSWER: noble gases [or Group 18; or Group VIIIA]

Delta Burke 2013
Round 6 Bonuses

1. They can be factored by LU decomposition, and they can be multiplied if the number of columns of the first equals the number of rows of the second. For 10 points each:

[10] Name these arrays of numbers whose 2 x 2 type has a determinant equal to $ad - bc$.

ANSWER: matrix [or matrices]

[10] This property does NOT hold for matrix multiplication, but does hold for the multiplication of real numbers. This property states that the order of the operations does not matter.

ANSWER: commutative

[10] In this type of matrix, every diagonal entry is one and every other entry is zero. The product of a matrix and its inverse is this type of matrix.

ANSWER: identity

2. This author's speech to the Harvard Phi Beta Kappa society titled "The American Scholar" called for throwing off the "intellectual shackles" of Europe. FTPE:

[10] What friend of Henry David Thoreau described the "shot heard 'round the world" in his poem "Concord Hymn"?

ANSWER: Ralph Waldo Emerson

[10] Emerson described himself as a "transparent eyeball" in this famous essay; the title place is best seen by children and is the closest we come to know of God.

ANSWER: "Nature"

[10] Emerson's essay "Nature" helped inaugurate this New England philosophical movement, the journal of which was *The Dial*.

ANSWER: Transcendentalism

3. In the very beginning of this video game, Robert and Rosalind Lutece argue about rowing. FTPE:

[10] Name this video game, the third in its franchise, which begins with Booker DeWitt on his way to an island lighthouse moments before being rocketed off to a floating city.

ANSWER: BioShock Infinite [prompt on "BioShock"]

[10] This floating city in BioShock Infinite shares its name with an Ivy League school in New York City as well as a "District" where the Wizards, Nationals, and Capitals play home games.

ANSWER: Columbia

[10] This avian protector of Elizabeth can be controlled by playing the musical notes C, A, G, E, which is an allusion to the captive nature of Elizabeth's upbringing in Columbia.

ANSWER: Songbird

4. This ruler formed the "Eternal Peace" with Khosrau I of the Sassanid Empire, and Procopius satirized this man's reign in his *Secret History*. FTPE:

[10] Name this Byzantine emperor who married Theodora and created a namesake law code.

ANSWER: Justinian I (or Justinian the Great)

[10] Justinian's reign was disrupted by this unrest of the Blue and Green factions during which the Hagia Sophia and much of Constantinople was destroyed.

ANSWER: Nika Riots (accept equivalents)

[10] Justinian sent his general Belisarius on a campaign against this tribe of Germanic Arians, whose leader Gelimer he defeated at Ad Decimum and Tricamarum.

ANSWER: Vandals

5. This god with fifty names is sometimes referred to as “Bel,” or lord. FTPE:

[10] What Babylonian deity, son of Ea, created the earth and heavens from the body of the slain sky dragon?

ANSWER: Marduk

[10] This is the primordial goddess Marduk slew after defeating her general Kingu.

ANSWER: Tiamat

[10] Marduk’s rule of the universe was confirmed by his taking of these stone documents from Tiamat.

ANSWER: Tablets of Destiny

6. Answer the following about the art boom in Arab countries, for 10 points each.

[10] This architect designed the Museum of Islamic Art in Doha [*DOH-hah*]. His other works include the JFK Library in Boston and the Rock and Roll Hall of Fame in Cleveland.

ANSWER: I. M. Pei [*PEY*]

[10] The architect Jean Nouvel will design the Abu Dhabi branch of this art museum. I. M. Pei designed a large glass pyramid that serves as the entrance to this Paris art museum.

ANSWER: Louvre

[10] Sheikha Mayassa of the Qatar Museums Authority paid more than \$250 million for a version of the painting *The Card Players* by this French artist, who often depicted Mont Sainte-Victoire.

ANSWER: Paul Cezanne

7. The atomic mass unit is sometimes named for this man, who studied colorblindness. FTPE:

[10] Name this English scientist who is also the namesake of the law of partial pressures.

ANSWER: John Dalton

[10] Pencil and paper ready. A vessel at STP that contains 0.3 moles of oxygen and 0.9 moles of nitrogen has this value for the partial pressure of nitrogen. Give your answer in atmospheres.

ANSWER: 0.75 atm [accept mathematical equivalents]

[10] John Dalton re-discovered the work of this English meteorologist, who names the atmospheric circulation cells that are closer to the equator than the Ferrel and polar cells.

ANSWER: George Hadley

8. This author was tutored by critic John Ruskin long before being sentenced to two years hard labor for the “gross indecency” of his relationship with Alfred Douglas. FTPE:

[10] Who was this author of *The Importance of Being Earnest*?

ANSWER: Oscar Wilde

[10] Wilde wrote that “each man kills the thing he loves” in this poem written while he was imprisoned.

ANSWER: “The Ballad of Reading Gaol” [redding jail]

[10] Basil Hallward is the creator of the title object of this novel, which depicts the effects of a debauched life on the title character.

ANSWER: *The Picture of Dorian Gray*

9. The Grameen Bank, founded by a later Nobel Peace Prize winner, is considered the first institution exclusively concerned with this type of lending. FTPE:

[10] What name is given to the lending of very small amounts of money at similarly small interest rates to those too poor to work with traditional banks?

ANSWER: microloans (accept microlending or microfinance)

[10] This economist won the 2006 Peace Prize for his work with the Grameen Bank.

ANSWER: Mohammed Yunus

[10] Yunus founded Grameen Bank in this tiny country, formerly known as East Pakistan, with capital at Dhaka.

ANSWER: Bangladesh

10. The Supreme Court case of *Lochner v. New York* invalidated laws limiting the hours of workers. FTPE:

[10] The case involved working hours for employees in this profession, in which American businesses were seeing increased competition from immigrants.

ANSWER: baker (accept word forms)

[10] The majority in *Lochner* cited this clause of the Fifth Amendment requiring adequate legal recourse; the amendment notes that one can't be deprived of life, liberty, or property without this.

ANSWER: due process

[10] In his *Lochner* dissent, this justice noted that "the 14th amendment does not enact Mr. Herbert Spencer's *Social Statics*." This son of a poet also famously referred to a "clear and present danger" in his opinion in the *Schenk* case.

ANSWER: Oliver Wendell Holmes, Jr.

11. This mountain range provides a natural barrier between Europe and Asia. FTPE:

[10] Mount Elbrus is the highest peak in what range on the southern border of Ukraine?

ANSWER: Caucasus Mountains

[10] The Caucasus lie on the northern border of this country with capital at Tbilisi.

ANSWER: Georgia

[10] On the west the Caucasus end at this body of water into which the Crimean peninsula juts. This sea lies on Turkey's northern border.

ANSWER: Black Sea

12. Answer some things about damnation in religions besides Christianity, FTPE:

[10] Sinners in this religion are sent to Jahannam, which is guarded by 19 angels led by Maalik. Jahannam's structure is further detailed in the Hadiths of its prophet Muhammad.

ANSWER: Islam

[10] In Buddhism, Avici is the deepest realm of Naraka, the lowest level of rebirth. Avici and Naraka are described in the Lotus version of these texts, which also include Diamond and Heart varieties.

ANSWER: Sutras

[10] Metnal, which is ruled by Ah Puch, is the ninth level of this hell from Mayan religion. According to the *Popul Vuh*, the Hero Twins traveled here to defeat the Lords of this place.

ANSWER: Xibalba

13. Named for a British theoretical physicist, it is sometimes known as the "God particle." FTPE:

[10] Name this boson of around 125 giga-electronvolts that gives other particles their mass.

ANSWER: Higgs boson

[10] This particle accelerator built by CERN near Geneva was used to observe the Higgs boson.

ANSWER: Large Hadron Collider [or LHC]

[10] Along with its "sister," the Compact Muon Solenoid, this detector at the LHC was used to discover the Higgs boson. This largest particle detector in the world weighs around 7,000 tons.

ANSWER: ATLAS [or A Toroidal LHC Apparatus]

14. This author never finished her second novel, tentatively titled *The Long Goodbye*. FTPE:

[10] What woman's only published work is the classic *To Kill a Mockingbird*?

ANSWER: Harper Lee

[10] Lee assisted her friend Truman Capote on this book chronicling the murder of the Clutter family in Kansas by Perry Smith and Dick Hickock.

ANSWER: In Cold Blood

[10] Capote was the model for this character in *To Kill a Mockingbird*, a boy who visits his aunts in the summers and who pretends to get engaged to Scout.

ANSWER: Dill Harris

15. The development of this country's civilization is discussed in *The Masters and the Slaves*. FTPE:

[10] Name this South American country whose official language is Portuguese.

ANSWER: Brazil [or Brasil]

[10] A navigator destined for India with this first name "discovered" Brazil in 1500. An emperor with this name ruled Brazil in 1888 when the Golden Law, which abolished slavery, was passed.

ANSWER: Pedro

[10] This two-word phrase names the period in Brazilian history from 1937 to 1945 that was established during the reign of Getulio Vargas.

ANSWER: Estado Novo [or New State]

16. This composer was friends with Goethe [*GUR-tuh*] and had a sister named Fanny. FTPE:

[10] Name this composer whose works include the *The Hebrides* overture, the oratorio *Elijah*, and incidental music for *A Midsummer Night's Dream*, which includes the "Wedding March."

ANSWER: Felix Mendelssohn

[10] Felix Mendelssohn's fourth symphony is named for this European country and includes a final movement based on a lively Neapolitan dance called the saltarello.

ANSWER: Italy [or Italia; or Italian Republic]

[10] This collection of 48 piano pieces by Mendelssohn includes "Duetto," "Hunting Song," "Funeral March," and three works titled "Venetian Boat Song."

ANSWER: Songs Without Words [or Lieder ohne Worte]

17. Jaroslav Hasek's satire of WWI, *The Good Soldier Schweik*, was written in this language. FTPE:

[10] What is this language, in which *The Unbearable Lightness of Being* was also written?

ANSWER: Czech

[10] *The Unbearable Lightness of Being* is by this Czech author, who has written novels since then, like *The Book of Laughter and Forgetting*, in French.

ANSWER: Milan Kundera

[10] Another Czech writer is this absurdist author of plays like *The Garden Party* and *The Memorandum*, who also was the last president of Czechoslovakia and first of the Czech Republic.

ANSWER: Vaclav Havel

18. Pre-menopausal women who are diagnosed with this disease are prescribed tamoxifen [*tuh-MOK-suh-fuhn*], and post-menopausal women are prescribed aromatase inhibitors. FTPE:

[10] Name this type of cancer that can be detected with a mammogram.

ANSWER: breast cancer

[10] Tamoxifen blocks the receptors for this hormone, which is synthesized by aromatase.

ANSWER: estrogen

[10] A mutation in these two genes, which are located on chromosomes 17 and 13 respectively, can increase the risk of developing breast cancer, as well as ovarian cancer.

ANSWER: BRCA1 and BRCA2 [(BUR-ka); both required; prompt on partial answer]

19. Lombard wrote four books of these glosses on biblical passages. FTPE:

[10] What type of declarative statements name Lombard's work, a word modern students might associate with independent clauses punctuated to stand alone?

ANSWER: Sentences

[10] Lombard's *Sentences* offered commentary on this Latin translation of the bible prepared mostly by St. Jerome.

ANSWER: Vulgate

[10] Lombard is considered part of this philosophical movement of medieval thinkers associated with early universities, also including Peter Abelard and William of Ockham.

ANSWER: Scholastic Philosophers (or "schoolmen")

20. George Washington revised his Farewell Address with the help of this man. FTPE:

[10] Name this man who served as the first Secretary of the Treasury before being killed by Aaron Burr in a duel.

ANSWER: Alexander Hamilton

[10] Washington's Farewell Address warned against the formation of political parties, partly inspired by factionalism between Hamilton's Federalists and this other party founded by Thomas Jefferson and James Madison.

ANSWER: Democratic-Republicans

[10] Alexander Hamilton provided the first and middle names of this man, the first and only Vice President of the Confederate States of America.

ANSWER: Alexander Hamilton Stephens