

Delta Burke 2014
Round 6

1. Peter Chen devised a method of designing these structures called the entity-relationship model. Edgar Codd is the father of one type of these structures and names a series of rules concerning them. Requirements of their transactions are given by the acronym ACID, which stands for atomicity, consistency, isolation, and durability. Some of these structures are organized by fields and records. MySQL is an open source management system for these structures, whose relational type is made up of tables. For 10 points, name these collections of organized information.

ANSWER: (relational) databases

2. A painting by Duchamp depicts a "Sad Young Man" smoking on one of these objects. One of these objects numbered 6943 is depicted by Boccioni in the first painting of the *States of Mind* series. Below a clock and two candles, one of these objects appears to be emerging from a fireplace in a Magritte painting. A rabbit is fleeing from a very blurry one of these objects in a Turner painting. Monet depicted several of these objects in a painting set at the Saint-Lazare station. For 10 points, name these vehicles, one of which is depicted in *Rain, Steam, and Speed*.

ANSWER: trains [accept synonyms, such as locomotives]

3. In this movie, one character's nickname is explained while showing his reaction to missing part of the TV show *The Equalizer* due to a phone call. This film ends with a scene in New Zealand, where the protagonist repeatedly asks "Sell me this pen." One character in this film swallows a goldfish after catching another cleaning its tank on the day of a meeting with Steve Madden, who owns a footwear company. The protagonist of this film is addicted to quaaludes [*KWEY-loods*] and starts the brokerage firm Stratton Oakmont, where people toss dwarves at velcro targets. For 10 points, name this Martin Scorsese movie that starred Leonardo DiCaprio as a stockbroker.

ANSWER: *The Wolf of Wall Street*

4. One literary character with this profession was a "Total Demoralizator" in Annexia before meeting William Lee; that character's name is Benway in the novel *Naked Lunch*. The character Daneeka is a member of this profession and finally utilizes his skills after Snowden's death in *Catch-22*. Another character is the only practitioner of this job in fictional Wheatsylvania, North Dakota, where his wife Leora's family lives. FTP, Sinclair Lewis's character Martin Arrowsmith is a member of what profession, in which he tries to treat an epidemic of plague on the island of St. Hubert?

ANSWER: doctor

5. During one war, this city hired the Spartan mercenary Xanthippus and won the Battle of Tunis. Following one loss, the head of one of this city's generals was thrown into his brother's war camp. One general from this city fell victim to the Fabian strategy despite his earlier victory near the Aufidius River during which he encircled Gaius Varro's army with a pincer movement. This city won the Battle of Cannae but would later lose to Scipio at Zama. Cato the Elder often ended speeches calling for the destruction of, FTP, what city home to Hannibal that fought Rome in the Punic Wars?

ANSWER: Carthage

6. Laws named for this man were modified by Mordechai Milgrom to describe systems of galaxies. One law named for this man includes the convective heat transfer coefficient, and another contains a constant whose value was first measured by Henry Cavendish in an experiment that used a torsion balance. One law named for this man is sometimes called the action-reaction law, and another is alternatively known as the law of inertia. For 10 points, name this English scientist who names three laws of motion, including one that states force equals mass times acceleration.

ANSWER: Isaac Newton

7. A Marxist approach to studying this academic discipline is sometimes referred to it “from below.” Cliometrics is a movement in this academic discipline emphasizing the effect of socio-economic factors in its core area of study. Lucien Febvre and Fernand Braudel are practitioners of this discipline who emphasized the idea of “the long term” as part of an early 20th-century school in this academic field in France called the Annales School. All of these movements opposed the so-called “Great Man” approach to studying this subject. FTP what academic discipline examines what has happened in the past?

ANSWER: history

8. Following one battle at this site, Fitz John Porter was court martialed for disobeying direct orders. A general at that battle was sent to fight in the Dakota War as punishment for his ineptitude; that man was John Pope. At another battle at this site, one side sent troops led by Hunter and Heintzelman across Sudley Springs Ford, while troops led by Joseph Johnston arrived by railroad and helped to turn the tide. That battle featured a fierce struggle over control of Henry House Hill. At one battle on this site, Thomas Jackson earned the nickname “Stonewall.” Two battles were fought at, FTP, what site near the Potomac that hosted the first major battle of the Civil War?

ANSWER: Bull Run (or Manassas)

9. This deity fathered four daughters on one of his wife’s attendants, Aglaea. This deity’s attempted rape of Athena led to the inadvertent birth of Erichthonius. Greeks were fond of an image of this deity drunkenly slung on the back of a donkey after Dionysus inebriated him and brought him to Olympus to free Hera from a throne this deity devised for her. This god created an invisible snare net that he used to capture his wife in flagrante with Ares. Lame due to his being hurled to earth from Olympus at birth, FTP name this Greek god of the forge.

ANSWER: Hephaestus

10. This poet wrote "In the spring a young man’s fancy / lightly turns to thoughts of love" in a poem about the narrator's unrequited love for his cousin Amy that is titled for a childhood home. A work of his describes nature as "red in tooth and claw." That poem was written after the death of Arthur Hallam and states "'Tis better to have loved and lost / Than never to have loved at all." Another of his poems describes an event in which "Into the valley of death / Rode the six hundred." For 10 points, name this poet of "Locksley Hall" and "The Charge of the Light Brigade."

ANSWER: Alfred, Lord Tennyson

11. The faithful are enjoined to enter these structures right-foot first, and upon entering one uses the sardivan to perform ablutions. The largest room in this type of structure is generally free of furniture to maximize space for worshippers and is called the musallah That room in these structures will often include a raised platform called a minbar and will also feature a mihrab, a niche indicating the qibla, the direction of prayer. Minarets often adorn, FTP, what prayer structures in Islam?

ANSWER: mosque

12. Cotton and Murillo discovered a ditungsten paddlewheel complex with an extremely low value of this quantity, which equals the negative energy of the HOMO, according to Koopmans' theorem. Calculating the enthalpy of formation of sodium chloride requires knowing this quantity for gaseous sodium. Mulliken electronegativity is the average of electron affinity and this quantity, which generally increases from left to right and decreases from top to bottom on the periodic table. For 10 points, name this energy required to remove the outermost electron from an atom.

ANSWER: ionization energy [or ionization potential; or IE; or IP]

13. In past performances of this opera, the Romani aria "Manca un foglio" was often used instead of the more difficult aria "A un dottor della mia sorte." The music teacher Basilio agrees that he is suffering from scarlet fever after accepting a bribe during this opera's quintet "Buona sera, mio signore." One character in this opera sings "Lindoro will be mine" in the aria "Una voce poco fa," and this opera's title character sings "Razors and combs / Lancets and scissors / At my command" in another aria. Rosina and Count Almaviva get married in this opera, which includes Figaro's aria "Largo al factotum." For 10 points, name this Rossini opera set in a Spanish city.

ANSWER: *The Barber of Seville* [or *Il barbiere di Siviglia*]

14. The 1942 Supreme Court decision in *Wickard v. Filburn* affirmed the government's power to regulate production of this substance via the Agricultural Adjustment Act. The proposed McNary-Haugen bill of 1929 called for government purchase of this substance to keep its prices artificially high as they were during WWI, when the government urged Americans to replace this product with cornmeal. The hardy Turkey Red variety of this substance allowed it to become the primary product of Kansas farms. FTP identify this agricultural product, the most-produced cereal grain in the US.

ANSWER: wheat

15. This flower is asked to "come near" in a Yeats poem that recalls "Cuchulain battling with the bitter tide." The speaker grows one of these objects for both the "sincere friend" and "cruel man" in a Jose Marti poem. In a Blake poem, an "Invisible worm / That flies in the night" makes one of these flowers sick. According to Shakespeare's character Juliet, this type of flower "by any other name would smell as sweet." For 10 points, name this type of flower that appears in the title of a Faulkner story in which arsenic is used to poison Homer, whose corpse is found in Emily's bed.

ANSWER: rose

16. This man wrote for Horace Greeley's *New York Tribune* until the departure of editor Charles Dana changed the paper's pro-abolitionist stance. This man's letter to Eisenach was later published as *The Critique of the Gotha Program*. This man wrote that history repeats, "first as tragedy, then as farce," in a work examining a French coup in 1851, *The Eighteenth Brumaire of Louis Napoleon*. This man's most famous work posits that, "The history of all hitherto existing society is the history of class struggles." That work was a collaboration between this man and Friedrich Engels. FTP, name this philosopher who wrote that "A spectre is haunting Europe," in *The Communist Manifesto*.

ANSWER: Karl Marx

17. Alonso de Ercilla's epic poem *La Araucana* describes the Spanish conquest of this modern-day nation. A group of economists called the "Chicago Boys" brought free market policies to this country in the 1980s, leading to what their teacher Milton Friedman called the "Miracle of" this country. The socialist Unidad Popular government in this nation was overthrown in 1973 by a junta led by a general who was arrested in 1998 in London for human rights violations and other crimes. FTP the government of Salvador Allende was deposed by Augusto Pinochet in what South American nation?

ANSWER: Chile

18. Members of the family Meropidae take their common name from their consumption of these animals, which can suffer from varroosis. Their namesake glue is a resinous mixture that is used to seal small openings, and is called sometimes propolis [*PROP-uh-lis*]. Karl Von Frisch discovered that the distance, direction, and abundance of food is communicated by these animals in the waggle dance. Some of these members of the order Hymenoptera have been affected by colony collapse disorder. For 10 points, name these flying insects, some of which produce honey.

ANSWER: honey bees

19. Medbourne, Gascoigne, and Colonel Killigrew compete for the affections of Widow Wycherly after briefly having their youth restored in this author's story "Dr. Heidegger's Experiment." The wedding of Edgar and Edith is celebrated by dancing around the title structure before Puritans under John Endicott arrive and have the celebrants flogged in this author's story "The Maypole of Merrymount." Those stories were collected in this author's *Twice-Told Tales*, which was followed in 1846 by the collection *Mosses from an Old Manse*. That collection included this author's story "Young Goodman Brown." FTP what American author wrote *The House of the Seven Gables* and *The Scarlet Letter*?

ANSWER: Nathaniel Hawthorne

20. Lemmenjoki National Park in this country provides opportunities for gold mining on its namesake river. Residents of the autonomous Aland Islands between this country and its western neighbor are exempt from required military service in this country. Those islands are found in the Gulf of Bothnia which runs along this country's west coast. Aalto University is found in this country's second-largest city, Espoo. FTP the 1952 Olympics were held in what home of the northernmost point in Europe, with capital at Helsinki?

ANSWER: Finland

Delta Burke 2014
Round 6 Bonuses

1. According to Ashanti myth, this figure created the moon and sun. FTPE:

[10] What son of Nyame in West African tales created the first man and got caught fast in the wax girl?

ANSWER: Anansi

[10] Anansi is one of these creatures, into one of which Arachne was transformed by Athena.

ANSWER: spider

[10] Like another spider deity, Iktomi of the Lakota people, and Loki of Norse myth, Anansi is one of these trouble-making archetypes of various myth systems.

ANSWER: trickster

2. Name some things about the literature of our neighbor to the north, FTPE:

[10] This Canadian novelist wrote about Offred, who lives in the Republic of Gilead in this author's *The Handmaid's Tale*.

ANSWER: Margaret Atwood

[10] This Canadian was awarded the 2013 Nobel in Literature for her "mastery of the contemporary short story," which is showcased in collections like *Runaway* and *Dance of the Happy Shades*.

ANSWER: Alice Munro

[10] Canadian author Yann Martel penned this novel about an Indian boy who spends weeks adrift at sea on a lifeboat with a tiger named Richard Parker.

ANSWER: Life of Pi

3. This piece includes a major-key version of the Dies Irae in the style of a waltz. For 10 points each:

[10] Name this tone poem that opens with the harp playing a single note twelve times, which represents the twelve strokes of midnight, followed by a solo violin playing tritones.

ANSWER: Danse Macabre

[10] *Danse Macabre*, along with the opera *Samson and Delilah*, were both composed by this Frenchman, who included "Fossils" and "The Swan" in his suite *The Carnival of the Animals*.

ANSWER: Camille Saint-Saens [*san-SAHNS*]

[10] The third symphony by Saint-Saens is named for this keyboard instrument. J. S. Bach's piece *Toccata and Fugue* was composed for this instrument, which is often found in churches.

ANSWER: organ

4. This man shared the 1903 Nobel Prize in Physics with Marie and Pierre Curie. FTPE:

[10] Name this French physicist who discovered radioactivity and names its SI unit.

ANSWER: Henri Becquerel [*bek-uh-REL*]

[10] Becquerel discovered radioactivity in this chemical element of the actinide series.

ANSWER: uranium

[10] Uranium-238 decays into thorium-234 through the emission of one of these particles, which is composed of two protons and two neutrons, and is equivalent to the nucleus of a helium atom.

ANSWER: alpha particle

5. The author of the essay "The Gospel of Wealth" argued that the rich should engage in this practice. FTPE:

[10] What term from Greek roots meaning "the love of humanity" refers now to the donation of money and resources to worthy causes?

ANSWER: philanthropy (need this word)

[10] This Scottish-born steel magnate wrote "The Gospel of Wealth" before he sold his company to JP Morgan in 1901 in the creation of US Steel.

ANSWER: Andrew Carnegie (cont'd next page)

[10] Alexis de Tocqueville described the American impulse to philanthropy in the second volume of this book examining American society in the 1830s.

ANSWER: Democracy in America

6. This action has entered the popular lexicon as a metaphor used in many arguments about the limits of free speech. FTPE:

[10] Falsely engaging in what action in a “crowded theater” was used by Justice Oliver Wendell Holmes, Junior, as an example of speech that should not be protected?

ANSWER: “shouting fire” (accept reasonable synonyms for “shouting,” I reckon)

[10] Holmes included this famous metaphor in his opinion in what case in which the plaintiff had been arrested for distributing anti-conscription pamphlets?

ANSWER: Schenck v. US

[10] Charles Schenck’s pamphlets urged resistance to conscription during the US’s participation in this war.

ANSWER: World War I

7. Arthur Schopenhauer criticized the “Teutonic-Christian stupidity” of society’s design for these people, whom he controversially stated were “by nature meant to obey.” FTPE:

[10] Name these people whose “Subjection” titled a work by J.S. Mill, in which he argued that this people’s inequality was a relic of the past.

ANSWER: women (accept equivalents within reason)

[10] This woman philosopher fired back at Burke’s *Reflections on the Revolution in France* with *A Vindication of the Rights of Men* and would later write *A Vindication of the Rights of Woman*.

ANSWER: Mary Wollstonecraft (do NOT accept or prompt “Mary Wollstonecraft Shelley”)

[10] This French existentialist author of *The Ethics of Ambiguity* wrote that, “One is not born, but rather, becomes, a woman,” in *The Second Sex*.

ANSWER: Simone de Beauvoir

8. The protagonist of this story is lazy at home and goes to the woods to avoid his wife’s nagging. FTPE:

[10] What early American literary figure sleeps for twenty years after drinking some liquor offered by some men he meets in the forest of the Catskill Mountains of New York?

ANSWER: Rip Van Winkle

[10] Rip Van Winkle’s story is part of *The Sketch Book of Geoffrey Crayon*, a work by this early American author who also wrote “The Legend of Sleepy Hollow.”

ANSWER: Washington Irving

[10] One of Irving’s first successful works was a satiric history of New York, putatively by this Dutch author, whose last name later was applied as nickname for residents of Manhattan.

ANSWER: Diedrich Knickerbocker

9. A crescent-shaped structure composed of this material is called a barchan [*bahr-KAHN*]. FTPE:

[10] Name this loose material that usually consists of quartz and is often found in deserts.

ANSWER: sand

[10] This geological term refers to the intermittent leaping movement of sand particles. Along with creeping, reptation, and suspension, it is a type of aeolian transport.

ANSWER: saltation

[10] White Sands National Monument is home to dunes composed of this mineral. Selenite and alabaster are varieties of this mineral, which is composed of hydrated calcium sulfate.

ANSWER: gypsum

10. Answer the following about a terrorist organization, not an Egyptian goddess, for 10 points each.

[10] The acronym ISIS stands for "Islamic State of" these two neighboring countries. One of them contains the city of Tikrit [tih-KREET], and the other is led by Bashar al-Assad.

ANSWER: Iraq and Syria [both required]

[10] ISIS released a video in September 2014 showing the beheading of this American journalist, who was shown alive at the end of a video depicting James Foley's execution.

ANSWER: Steven Sotloff

[10] In the video of Steven Sotloff's beheading, a man named Jihadi John mentions the bombings of the dam in this Iraqi city. ISIS may have seized \$400 million from this city's central bank.

ANSWER: Mosul [or al-Mawsil]

11. The Nazi John Rabe formed a "safety zone" that sheltered about twenty thousand would-be victims of this event. FTPE:

[10] Name this atrocity during which Japanese forces slaughtered over one hundred thousand Chinese civilians living in the namesake city.

ANSWER: Rape of Nanking (or Nanking Massacre)

[10] The Rape of Nanking occurred during this war whose Pacific theater included battles at Midway and Iwo Jima.

ANSWER: World War II

[10] Following WWII, the Rape of Nanking was classified as a war crime, as was this event during which the Japanese army force-marched 80,000 POWs 80 miles to a work camp.

ANSWER: Bataan Death March

12. This province's city of Churchill is known as the "Polar Bear Capital of the World" for the large number of polar bears that migrate there in autumn. FTPE:

[10] Name this Canadian province whose northeastern corner abuts Hudson Bay, and which shares Reindeer Lake with western neighbor Saskatchewan.

ANSWER: Manitoba

[10] This lake, the largest in Manitoba, is fed by the Saskatchewan and Red Rivers, and shares its name with the capital of Manitoba.

ANSWER: Lake Winnipeg

[10] The Winnipeg River, which flows into Lake Winnipeg, has its source at this lake on the border of Ontario and Minnesota, which separates the U.S.-occupied Northwest Angle from the rest of the United States.

ANSWER: Lake of the Woods

13. The open-angle form of this disease develops slowly and is most common. For 10 points each:

[10] Name this eye disease caused by high intraocular pressure, which can lead to blindness.

ANSWER: glaucoma

[10] Glaucoma is the most frequent cause of blindness in this group of people in the United States, who make up a little more than ten percent of the population. This group of people also, unfortunately, have higher than average rates of diabetes, hypertension, and sickle-cell anaemia.

ANSWER: African-Americans [or black people; accept synonyms]

[10] A patient is asked to note irregularities in the lines on an Amsler grid in a test for this other eye disease, which is named for an area of the retina that contains a depression called the fovea.

ANSWER: macular degeneration

14. Identify some French painters of the nineteenth century FTPE:

[10] The term Impressionism was coined from the title of this man's 1871 work *Impression Sunrise*.

ANSWER: Claude Monet

[10] A white dog, two priests who wear red, and other "human figures" attend the title *Burial at Ornans* in a large painting by this leader of the realist movement,

ANSWER: Gustave Courbet

[10] This other French realist's masterwork is the large canvas Paris Street: Rainy Day, which is prominently displayed at Chicago's Art Institute.

ANSWER: Gustave Caillebotte (kye-uh-boat)

15. This president chose not to run for a second full term after getting trounced in the 1952 New Hampshire primary by Estes Kefauver. FTPE:

[10] What vice-president acceded to the presidency after the death of FDR in 1945?

ANSWER: Harry S Truman

[10] In September 1945 Truman offered this program of progressive legislation meant to build on the successes of the New Deal.

ANSWER: Fair Deal

[10] In 1952 Truman had the choice to run for a second full term because he was grandfathered in from the effects of this amendment which limits a president's ability to seek a third term.

ANSWER: 22nd Amendment

16. Maimonides theorized that this prohibition came from a desire to avoid a pagan custom. FTPE:

[10] An important injunction is made against cooking a baby goat, a kid, in what specific substance?

ANSWER: its mother's milk

[10] Two of the Torah's references to the prohibition on the mixing of meat and milk are in reference to this holiday, the Jewish Feast of Weeks, at which the eating of dairy products is encouraged.

ANSWER: Shavuot

[10] Muslims do not share the prohibition on mixing dairy and meat, as Kosher dietary rules are considered a subset of this Islamic term, which refers to those things that are permitted.

ANSWER: halal

17. This playwright died soon after a performance as Argan, the title figure of his play *The Imaginary Invalid*. FTPE:

[10] What 17th-century Frenchman also wrote *The Misanthrope* and *The School for Wives*?

Answer: Moliere (accept Jean-Baptiste Poquelin, as if!)

[10] Moliere's most anthologized play in the US is likely this comedy about the title religious hypocrite, who tries to woo Orgon's wife and take his house.

ANSWER: Tartuffe

[10] Early plays by Moliere often utilized stock characters like Harlequin, Pierrot, and Pulcinella from this style of theater which began in Italy.

ANSWER: Commedia del'Arte

18. This man led the Army of the Vosges during the Franco-Prussian War, and this man participated in a civil war against Juan Manuel de Rosas. FTPE:

[10] Identify this general nicknamed “The Hero of Two Worlds,” who led the Red Shirts during the Expedition of the Thousand.

ANSWER: Giuseppe Garibaldi

[10] Garibaldi led the Expedition of the Thousand during this period that ended with Victor Emmanuel II becoming king of a unified Italy.

ANSWER: Risorgimento

[10] This man offered Garibaldi a generalship to help command the Union Army during the US Civil War. This Secretary of State would later go on to foolishly purchase Alaska from Russia for \$7.2 million.

ANSWER: William Seward

19. This poem’s epigraph tells us it is spoken by “The Pool Players. Seven at the Golden Shovel.” FTPE:

[10] The first line titles what short, repetitive poem which ends “We/Jazz June. We/Die soon”?

ANSWER: “We Real Cool”

[10] “We Real Cool” is by this first African-American woman to win a Pulitzer Prize, which she was awarded for her long poem “Annie Allen.”

ANSWER: Gwendolyn Brooks

[10] Gwendolyn Brooks set many of her poems, like “The Blackstone Rangers,” in this city, her hometown. This city provided the setting for Upton Sinclair’s novel *The Jungle*.

ANSWER: Chicago

20. An atom of this element is surrounded by four methyl groups in the compound that is often used as the standard for calculating chemical shift in proton NMR spectroscopy. For 10 points each:

[10] Name this element that is located below carbon on the periodic table and is often used, along with germanium, in electronic devices because of its semiconductor properties.

ANSWER: silicon [or Si]

[10] This six-letter term refers to a method of changing the electrical properties of an intrinsic semiconductor by adding impurities, such as atoms of boron or arsenic.

ANSWER: doping

[10] A process of producing polycrystalline silicon is named for this German conglomerate, whose founder designed the pointer telegraph and names the SI unit of electrical conductance.

ANSWER: Siemens