

ACF Regionals 2015: A Livable Community

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Tossups

1. In this novel, two brothers learn that a great-great-uncle, who they thought had fled after a rebellion, actually hid in a cellar for ten years; those men also disagree about whether or not their older brother volunteered to be executed as compensation for a dead Korean. This novel begins as its narrator and his dog climb into a septic tank while recalling a conversation with his alcoholic wife Natsumi. The narrator's brother confesses to sleeping with their mentally disabled sister before committing suicide. John Bester titled his translation of this novel after the suicide of the narrator's friend, who painted himself red and stuck a cucumber up his anus. For 10 points, name this novel in which Mitsu and his brother Takashi return to their home village, written by Kenzaburo Oe.

ANSWER: *The Silent Cry* [or *Man'en Gannen no Futtoboru*; or *Football in the First Year of Man'en*]

2. This work was intended to hang in a parliament building designed by Legrand and Molinos. In the upper left of this work, a man stops his hat from flying away as an umbrella is flipped open behind him. This work shows a dissenter sitting on a chair with his head down and arms crossed, while at bottom center a clergyman dressed in his traditional white Carthusian robe, Christophe-Antoine Gerle, shakes hands with a layman. A strong wind makes long curtains billow in from the windows in the upper left of this work. Its vanishing point is between the eyes of Jean-Sylvain Bailly, who stands on a table with the title document and lifts his right hand as the crowd imitates him. For 10 points, name this never-completed Jacques-Louis David painting in which the Third Estate pledges to write a constitution.

ANSWER: *The Tennis Court Oath* [or *Le Serment du Jeu de Paume*]

3. A campaign ad in *support* of this politician asked, "How can you believe that you can kickstart a modern economy by fixing some roads?" and closes with the message "Think Twice." As Minister of Justice, this person helped reverse the effects of the *Seaboyer* decision through a new rape shield law, but was criticized for the Airborne Regiment's killing of a teen in the Somalia Affair, which occurred during this politician's time as Minister of National Defense. This person's staff was accused of insensitivity for releasing an attack ad drawing attention to a rival's Bell's palsy. This leader of the Progressive Conservatives never lived at 24 Sussex Drive because Brian Mulroney declined to move out. For 10 points, name this woman succeeded by Jean Chrétien, the only female Canadian Prime Minister.

ANSWER: Kim Campbell [or Avril Phaedra Douglas Campbell]

4. This musician played the opening solo on Gil Evans's arrangement of "St. Louis Blues" for *New Bottle Old Wine*. One of his albums features the first recording of the Miles Davis composition "Nardis." On the first side of one of his albums, he paired his popular version of Cole Porter's "Love for Sale" with "Autumn Leaves," which also titles a 1963 live album of his that emerged from the same Japanese tour as *Nippon Soul*. This musician referred to Bobby Timmons's "This Here" as "Dis Here," and performed it along with "Dat Dere." He recorded the album *Somethin' Else*. His namesake quintet recorded a popular version of "Work Song," by his cornetist brother Nat. For 10 points, name this nickname-sporting jazz saxophonist who had a hit with "Mercy, Mercy, Mercy."

ANSWER: Cannonball Adderley [or Julian Edwin Adderley]

5. According to Lycophron, this god married a nymph in Pallene, but fled via underground river to leave behind his murderous sons. In the *Georgics*, this god tells the story of Orpheus to Aristaeus. Euripides and Herodotus identify this god with a king who sheltered Helen during the Trojan War. This god shares his most notable superhuman ability with both Erysichthon's daughter Mestra and Nestor's son Periclymenus. Per Book IV of the *Odyssey*, this god reveals the fates of Ajax the Lesser and Agamemnon, and his daughter Eidothea hides a man in a sealskin so that he may ambush this god and learn how to return home to Sparta from Pharos. For 10 points, name this husband of Psamathe, a prophetic son of Poseidon and sea god whom Menelaus captures despite his ability to take any shape.
ANSWER: **Proteus**

6. The activity of these cells is regulated by the *ULT1* gene. These cells group around the largely non-mitotic cells of a zone called the quiescent center, and they are also regulated by a negative feedback loop between the expression of the *WUS* gene and the *CLV1* gene. The maintenance of these cells is controlled by the *KNOX* genes. The arrangement of these cells is typically described by the tunica-corpora model, and they contain proplastids. These cells comprise vascular cambium and cork cambium, and their namesake tissue comes in shoot apical and root apical varieties. For 10 points, name these undifferentiated cells, analogous to stem cells, which develop into xylem and phloem and are found in plants.

ANSWER: **meristematic** cells [or root apical **meristem** cells; or shoot apical **meristem** cells; or **RAM** cells; or **SAM** cells; accept **plant stem** cells until "stem cells" is read; prompt on "stem cells" until it is read]

7. After refusing an order of Maximian, a Roman legion composed of 6,600 members of this group was decimated at Agaunum and later utterly massacred. Officially, *thurificati*, *libellatici*, and *traditores* were classes of *lapsi*, a collective term for people who broke from this group, which made up the Theban Legion. While governor of Bithynia-Pontus, Pliny the Younger wrote a letter to Trajan asking for advice on dealing with these people, who Decius targeted in a law requiring public sacrifice. This group, which populated much of Rome's Aventine and Trastevere areas, made heavy use of catacombs. These people were officially tolerated after the Edict of Milan. For 10 points, name this religious group that Constantine I joined after he saw a cross in the sky.

ANSWER: **Christians** [accept anything indicating followers of **Christ** in the Roman Empire]

8. The time evolution of the radius of one of these objects can be approximated with less than one percent error by the expression "one minus t squared raised to the two-fifths power". The Keller-Miksis equation models these objects, which have a natural frequency proportional to the square root of the adiabatic index times pressure divided by density, a value called the Minnaert resonance. Bjerknes forces contribute to the emission of light from these objects when they are forced to oscillate by standing acoustic waves in a phenomenon known as sonoluminescence. These objects are described by the Rayleigh-Plesset equation, which is derived from the Navier-Stokes equations under spherical symmetry. For 10 points, name these objects that form and implode via cavitation and can form from soap films.

ANSWER: **bubbles** [or liquid **bubbles**; or soap **bubbles**]

9. In one scene, this character lies on his back and pedals his feet while saying "I'm losing weight, you notice, Pop?" In his last appearance, this character vows to stay "right in this city" and "beat this racket." This character pretends to be a champagne salesman while attempting to seduce a woman at a restaurant, to whom he introduces another character as the quarterback of the New York Giants. This man plans to create a sporting goods line with his older brother and repeatedly tells their mother that he's planning on getting married. After abandoning his father at Stanley's restaurant, this serial liar is berated by his mother Linda. For 10 points, name this character from Arthur Miller's *Death of a Salesman*, a son of Willy Loman and the younger brother of Biff.

ANSWER: **Happy** Loman [or **Harold** Loman; prompt on "Loman"]

10. A businessman of this surname sponsored an early namesake Air Race in 1927, in which all but two planes crashed or went missing, after a machine invented by Henry Ginaca boosted his profits. A politician of this surname pardoned Robert Wilcox after Wilcox's rebellion against him. That man of this surname gained additional powers after the Newlands Resolution was passed, and conspired with John Stevens and Lorrin Thurston to provoke the landing of the USS *Boston*. The "Bayonet Constitution" benefitted a bearded governor of this name by weakening Queen Liliuokalani. For 10 points, give this common surname of Hawaii's first territorial governor Sanford, as well as his cousin James, who founded a fruit company there known for its pineapples.

ANSWER: Dole [or James Dole; accept Sanford Dole after "Robert" is read]

11. Two objects sacred to this holiday, which resemble mouths and eyes respectively, are the *aravah* and the *hadass*. On its religion's calendar, this holiday is the first of the Shalosh Regalim each year. A prayer said on this holiday addressed to Abraham, Isaac, Jacob, Moses, Aaron, Joseph, and David, seven Biblical shepherds, honors guests called *ushpizin*. The Hoshanah Rabbah is observed at the end of this holiday; right after that, Shemini Atzeret follows after this third holiday in the month of Tishrei. Four species of plants, including the *lulav* branch and *etrog* citrus fruit, are waved around on this holiday, which remembers the Israelites' wandering in the desert. For 10 points, name this week-long Jewish autumn holiday, whose observers build and live in outdoor wooden booths.

ANSWER: Sukkot [or Sukkos; prompt on "Feast of Booths" or "Feast of Tabernacles"]

12. Fieldwork in this country resulted in a book that draws on Charles Henry and Morley Cromwell's experiences to explain how places can "speak the past into being"; that book is *Wisdom Sits in Places* by Keith Basso. An anthropologist working in this country created the theory that culture is "superorganic," and divided this country into "culture areas." Two cultures found in this country were compared to New Guinea's Dobu in a study contrasting "Apollonian" and "Dionysian" cultures. *Mules and Men* collects folklore from this country. Examples of "salvage ethnography" practiced in this country include Alfred Kroeber's work with a native named Ishi. For 10 points, name this nation studied in Ruth Benedict's *Patterns of Culture*, which looked at the Zuni, one of its Pueblo peoples.

ANSWER: United States of America [or USA; or America]

13. In a poem by this author, the speaker "loved [the] whole manner" of a man "sure-footed but too sly" who was "blown to bits / out drinking in a curfew." This author of "Casualty" also wrote about creatures "poised like mud grenades, their blunt heads farting," called "great slime kings" who "were gathered there for vengeance." In that work, he recounts filling "jampotfuls of the jellied / Specks to range on window sills at home" and watching "until / The fattening dots burst, into nimble / Swimming tadpoles." In another poem by this man, he remembers seeing his brother "for the first time in six weeks" in a "four foot box, one for every year." For 10 points, name this Irish poet of "Death of a Naturalist" and "Mid-Term Break" who produced a 1999 verse translation of *Beowulf*.

ANSWER: Seamus Heaney

14. The leader of this group is later seen listing frankincense and myrrh as aftershave lotions. This group arrives too late to a courtroom after a judge displays a giant model ant during a game of charades and announces that he is moving to South Africa to "get some decent sentencing done." This group is shown in 1912 in Jarrow after a man reports that "One of the cross beams has gone out askew on the treadle." In another scene, this group pokes an old lady with soft cushions and makes her sit in the comfy chair. Their leader counts "ruthless efficiency" among their chief weapons, along with "fear," "surprise," and "an almost fanatical devotion to the pope." For 10 points, name this group of inept torturers from a series of Monty Python sketches, in which nobody expects them.

ANSWER: The Spanish Inquisition [or things like "the Spanish Inquisition cardinals from the Monty Python sketches"]

15. Ruins built in this empire's first capital are called the Roluos Group. An expedition by Henri Mouhot spurred Western interest in this empire, which one man ascended to rule by jumping on the head of a rival's war elephant and killing him. Legendarily, this empire's founder declared independence from Sailendra before he absorbed the pre-existing Chenla people. Leaders called *chakravartin* led this empire, which built massive water reservoirs called *baray*. Many complexes built by this empire, such as Bayon, represented the mythical Mount Meru. This empire, whose boats fought against Champa on the Tonle Sap, was founded by Jayavarman II. For 10 points, name this Hindu-turned-Buddhist medieval empire which built Angkor in what's now Cambodia.

ANSWER: **Khmer** Empire [do not accept "Khmer Rouge"]

16. Near the end of this piece, a dominant seventh chord on A is used to modulate unexpectedly from D major to D-flat, then back from D-flat to the final D major. This piece begins with a cello and viola playing tenuto half note D's an octave apart, which continues as another cello and viola introduce a dotted theme descending from B-flat to D, the first of three passages representing the protagonists walking. The Rosé Quartet participated in the premiere of this piece only after being encouraged by Gustav Mahler. This composition was rejected by a Vienna music society over its uncategorized inverted ninth chord. This piece depicts a woman confessing to her lover that she bears another man's child, deriving its program from a Richard Dehmel poem. For 10 points, name this string sextet, the first major work by Arnold Schoenberg.

ANSWER: **Transfigured Night** [or **Verklärte Nacht**]

17. In a play by this man, Lisardo is killed fighting a duel to prevent his sister from marrying a man who turns out to be her twin brother. That sister, Julia, has a scar on her chest that matches Eusebio's. This author of *Devotion to the Cross* wrote a play in which Rebolledo and Don Alvaro stage a mock fight so that the latter may meet Isabel, after which her father Pedro Crespo is elected to the title office. This author wrote a third play in which Rosaura marries a man she had meant to kill, Astolfo, who has a claim to the throne of Poland. In that play by this man, Segismundo overthrows but does not kill his father after he is released from his lifelong imprisonment. For 10 points, name this Spanish Golden Age playwright of *The Mayor of Zalamea* and *Life is a Dream*.

ANSWER: Pedro **Calderón** de la Barca

18. The Fontaine-Mazur conjectures ask whether l -adic representations of these mathematical objects have convenient geometric properties. Infinite groups of this type can be endowed with the Krull topology. The "absolute" one for a field F is defined in terms of the separable closure of F . For field L and subfield K , all automorphisms of L fixing K are trivial if and only if the corresponding one of these groups is trivial, since the order of one of these groups equals the degree of the corresponding field. A polynomial equation is solvable by radicals if and only if the one of these groups corresponding to its splitting field is solvable. For 10 points, name these groups of automorphisms of field extensions, whose subgroups correspond to intermediate fields according to the namesake "theory" of a French mathematician.

ANSWER: **Galois** groups [prompt on "groups" or "automorphism groups"]

19. This phenomenon is the subject of a dispositional "higher-order theory" by philosopher Peter Carruthers. Owen Flanagan called people who deny any possible account of this thing "New Mysterians." Adding a "causal role" for this thing to quantum theory was George Wigner's motive for the "Wigner's friend" variant of Schrödinger's cat. Ned Block distinguished "A-" and "P-" types of this phenomenon; understanding the "A-" or "access" type is among its "easy problems" according to David Chalmers. This thing "makes the mind-body problem really intractable," according to Thomas Nagel's "What is it like to be a bat?" Some thinkers claim this thing is divided into units called qualia, which philosophical zombies lack. For 10 points, name this term for awareness of one's own mind.

ANSWER: **consciousness** [or **conscious** experience; prompt on "experience" or "perception" throughout; anti-prompt on "qualia" until mention; prompt on "the mind" until "mind-body" is read]

20. One reaction to prepare these compounds adds diazomethylphosphonate esters to aldehydes under basic catalysis and generates vinyl-diazo intermediates. Along with aldehydes, these compounds are the degradation products of alpha, beta-epoxy tosylhydrazones in the Eschenmoser fragmentation. A coupling involving both palladium and copper catalysis, in which these compounds react with aryl halides, is the Sonogashira reaction. These compounds react with azides to form triazole rings in a well-known click-chemistry reaction, and terminal ones can be deprotonated by sodium amide. They are reduced to *cis*-alkenes by the poisoned Lindlar catalyst. This functional group is composed of two sp-hybridized carbons. For 10 points, name this functional group consisting of a carbon-carbon triple bond.

ANSWER: alkynes [do not accept "alkenes" or "alkanes"; if necessary, ask teams to spell their answer]

TB. In one work by this artist, a radiant sun appears at the top of a ribbon-like spiral staircase suspended in a starlit sky. In another work, this man was inspired by lines from *Macbeth* to show a small child leaping up from a dead body into the arms of a woman on a white flying horse. This artist of *Jacob's Ladder* and *Pity* created a series of watercolors about a beast with white stars on its wings who stands oppressively over a lady in bright yellow, described as "the woman clothed with the Sun." This artist of a series about the Great Red Dragon showed one of his own creations, the bearded Urizen, crouching down from the Sun to measure the void with a compass in *Ancient of Days*. For 10 points, name this English painter who also illustrated his own *Songs of Innocence and of Experience*.

ANSWER: William Blake

Bonuses

1. The strength of this phenomenon is defined as the difference between the resistances in the parallel and anti-parallel state, divided by the resistance in the parallel state. For 10 points each:

[10] Name this phenomenon discovered by Michel Jullière, in which placing an insulator between two ferromagnets makes the rate at which electrons pass through the insulator depend on the ferromagnets' spin polarizations.

ANSWER: tunnel magnetoresistance [or TMR; prompt on "magnetoresistance"]

[10] Jullière theorized that TMR arises because the density of states at this energy is different for spin-up and spin-down electrons. At absolute zero, this energy is the highest energy occupied by one of the electrons.

ANSWER: Fermi level [or Fermi energy]

[10] For an intrinsic semiconductor, the Fermi level sits at roughly halfway between the conduction band and the band named by this word. This word also describes electrons on the outermost shells of atoms.

ANSWER: valence band [or valence electrons]

2. After this god's youngest daughter killed herself, the dead daughter's husband gave this god the head of a goat. For 10 points each:

[10] Name this member of the Prajapatis. He had a metric crapload of daughters, including Rohini and Shiva's first wife, Sati.

ANSWER: Daksha

[10] Daksha gave 27 of his daughters to this god, but laid a curse on him for only paying attention to Rohini.

Another curse made it so people wouldn't look at this moon god after he laughed at Ganesh.

ANSWER: Chandra [or Soma]

[10] This husband of Daksha's daughter Rati woke Shiva with his sugarcane bow while trying to make him have sex with Parvati. Shiva then incinerated the body of this love god, leaving him incorporeal and presumably unable to ride a parrot anymore.

ANSWER: Kamadeva

3. Some scholars theorize that the figures looking over the bridge in Rogier van der Weyden's *St. Luke Drawing the Virgin* are these two people, who embrace each other on a bridge in front of a walled city in another work. For 10 points each:

[10] Name this Biblical couple whose lives are shown in six panels that sit opposite the Life of the Virgin in the Scrovegni Chapel. The most common depictions of these people show them meeting at the Golden Gate.

ANSWER: Joachim and Anne [or Joachim and Anna; accept answers indicating the parents of the Virgin Mary]

[10] This artist painted the panels of the Scrovegni Chapel, also called the Arena Chapel, whose ceiling he filled with a rich cobalt blue. This student of Cimabue demonstrated his skills to the Pope by drawing a perfect circle.

ANSWER: Giotto di Bondone

[10] Giotto's greatest architectural achievement was his design for this building in Florence. Only its lower level, which is decorated with hexagonal sculptural panels, was completed during Giotto's lifetime.

ANSWER: campanile of the Florence Cathedral [or bell tower of the Florence Cathedral, accept answers with "Duomo" in place of "Cathedral"]

4. Answer the following about procedures for picking a new religious leader after the loss of an old one, for 10 points each.

[10] The search party for this Buddhist leader presents a set of artifacts to young boys to see if one will recognize them from his past life. It's unclear how he will be found if the current one, Tenzin Gyatso, dies in exile.

ANSWER: Dalai Lama

[10] Each new leader of this high church has his name picked out of a glass bowl by a blindfolded boy. Tawadros II, its current pope, oversees use of religious texts in a direct descendant of Demotic.

ANSWER: Coptic Orthodox Church of Alexandria [or Coptic Christians; or Copts; accept Coptic Pope; prompt on "Egyptian" or "Egyptian Orthodox"]

[10] More locally, these national ambassadors from the Vatican, who wear pinkish-purple robes, draw up the list of candidates to replace recently-deceased local bishops, and forward them to the Holy See.

ANSWER: apostolic nuncios

5. This author titled all the stories in his collection *The Periodic Table* after elements. For 10 points each:

[10] Name this Italian chemist and author, who wrote about the year he spent as a prisoner in Auschwitz in his memoir *If This Is a Man*.

ANSWER: Primo Levi

[10] This man's recent novel *The Zone of Interest* is also set in Auschwitz. This man also wrote about advertisement director John Self in his novel *Money: A Suicide Note*.

ANSWER: Martin Amis [prompt on "Amis"]

[10] Elie Wiesel wrote this fictionalized account of his and his father's time in Auschwitz and Buchenwald. Francois Mauriac encouraged Wiesel to rework this book from its original Yiddish into French.

ANSWER: Night [or *La Nuit*]

6. A plane carrying UN Secretary-General Dag Hammarskjöld crashed *en route* to cease-fire discussions in this region, killing him. For 10 points each:

[10] Name this mineral-rich region that formed a breakaway state under Moïse Tshombe. Mobutu Sese Seko renamed it Shaba.

ANSWER: Katanga province

[10] A crisis in this modern-day country got worse when Katanga broke away. Long-time leader Mobutu Sese Seko renamed this whole country Zaire.

ANSWER: Democratic Republic of the Congo [or DRC; or DR-Congo; or Congo-Kinshasa; prompt on "Congo"; do not accept "Republic of the Congo" or "Congo-Brazzaville"]

[10] These militant Maoist rebels of the mid-1960s, who got to keep their chosen Swahili name, interrupted reconciliation with Katanga late in the Congo Crisis.

ANSWER: Simbas [or Simba rebellion]

7. In a novel written in this language, the narrator is imprisoned for following "Okhela" and is asked to dedicate a volume of poetry to a policeman he calls "Mr. Interrogator." For 10 points each:

[10] Name this language of the Sixties, in which the novels *True Confessions of an Albino Terrorist* and *A Dry White Season* were written.

ANSWER: Afrikaans

[10] Breyten Breytenbach and Andre Brink both speak Afrikaans, as does this fictional member of the South African Communist Party and anti-apartheid activist who fathered Rosa and took in Baasie.

ANSWER: Lionel Burger [prompt on "Burger"]

[10] Lionel appears in *Burger's Daughter*, a novel by this Nobel Prize-winning author of *July's People*.

ANSWER: Nadine Gordimer

8. A pair of incriminating tortoise-shell glasses were accidentally dropped near this person's body after his face and penis were doused with hydrochloric acid to obscure his identity. For 10 points each:

[10] Name this Chicago teenager, a watchmaker's son who was kidnapped and murdered in 1924 in an attempt to commit the "perfect crime."

ANSWER: Robert "Bobby" **Franks**

[10] These two gifted students got life sentences rather than the death penalty for murdering Bobby Franks, an act inspired in part by Nietzsche's *ubermensch* ideal.

ANSWER: Nathan Freudenthal **Leopold**, Jr. AND Richard Albert **Loeb**

[10] This mentee of Illinois governor John P. Altgeld argued against the death penalty in his courtroom defense of Leopold and Loeb.

ANSWER: Clarence **Darrow**

9. In valence bond theory, this electron-pair geometry has a d-2-sp-3 hybridization. For 10 points each:

[10] Name this molecular geometry. According to crystal field theory, the d-orbitals in a molecule of this geometry are split into the nonbonding triply-degenerate t-sub-2g level and the antibonding doubly-degenerate e-sub-g level.

ANSWER: **octahedral**

[10] In Tanabe-Sugano diagrams, the electronic transition energies for octahedral metal complexes are plotted against the ratio of the splitting parameter delta to this parameter, which quantifies interelectron repulsion.

ANSWER: Racah **B** parameter [prompt on "Racah parameter"; prompt on "interelectron repulsion parameter"]

[10] Unlike square planar compounds, compounds with octahedral molecular geometries can have this type of stereoisomerism. Molecules with this property can exist in non-superimposable mirror images.

ANSWER: **chirality** [or **enantiomerism**]

10. This theory starts with the idea that "the I posits itself;" in doing so, the I discovers its limits via a "check," or *Anstoss*, reconciling its absolute freedom with objective necessity. For 10 points each:

[10] Name this systematic form of transcendental philosophy set forth in texts like *Foundations of Natural Right*.

ANSWER: **Wissenschaftslehre** [prompt on translations such as "Science of Knowledge", "Doctrine of Science", or "Doctrine of Scientific Knowledge"]

[10] This post-Kantian German nationalist and philosopher, the author of *Attempt at a Critique of All Revelation*, formulated the *Wissenschaftslehre*.

ANSWER: Johann Gottlieb **Fichte**

[10] Fichte had to leave the University of Jena after Friedrich Jacobi accused him of holding *this belief*, which Bertrand Russell defended in "Why I Am Not A Christian."

ANSWER: **atheism** [or **nihilism**; accept descriptive answers such as "that **there is no God**;" prompt on "secular" or "non-religious"]

11. The speaker of this poem remarks that she would like to see a "fine brocaded gown" lying "in a heap upon the ground." For 10 points each:

[10] Name this poem that begins "I walk down the garden paths" before the speaker claims that she too is a rare one of the title things. It closes by asking "Christ! What are [the title things] for?"

ANSWER: **Patterns**

[10] The poet of "Patterns," whose given name is Amy, shares this surname with a Robert who "watched for love cars" during a drive in his poem "Skunk Hour."

ANSWER: **Lowell**

[10] Amy Lowell was a member of this movement that aimed for "clarity of expression." Other poets from this movement included H.D.

ANSWER: **Imagism** [or word forms like **Imagist**]

12. Symptoms of this neurodegenerative disease generally start to appear in middle age. For 10 points each:

[10] Name this autosomal dominant genetic disorder caused by a trinucleotide repeat on chromosome 4. Its symptoms include uncontrolled, jerky body movements and impairment of thinking and memory.

ANSWER: Huntington's disease [or HD]

[10] Huntington's is caused by this trinucleotide repeat in the *HTT* gene. This sequence of nucleotides codes for glutamine.

ANSWER: CAG [or cytosine-adenine-guanine]

[10] The CAG repeat can also cause various forms of the spinocerebellar type of this condition. Another type of this condition is caused by a trinucleotide repeat in the *FXN* gene on chromosome 9.

ANSWER: ataxia [or spinocerebellar ataxia; or Friedreich's ataxia]

13. In an article for *The New Republic* titled "Grammar Puss," this author attacked "language mavens" such as William Safire for overzealously insisting on prescriptive rules of language. For 10 points each:

[10] Name this Harvard professor and author of *How the Mind Works*, who argued that the capacity for language is programmed into the human mind by evolution in *The Language Instinct*.

ANSWER: Steven Arthur Pinker

[10] *The Language Instinct* popularized the theories of this MIT linguist. This author of *Syntactic Structures* argues that there is a universal grammar, a set of unconscious rules governing grammar in all human languages.

ANSWER: Noam Chomsky

[10] In *How the Mind Works*, Pinker argues that human reaction to this stimulus serves no adaptive purpose, and instead evolved as a by-product of things like language acquisition. In a metaphor, he likened it to cheesecake.

ANSWER: music [prompt on "art" or equivalents]

14. The tiny Botswain Bird Island just off of this island's coast is the only known nesting ground for its namesake species of frigatebird. For 10 points each:

[10] Name this volcanic Atlantic island. Its location midway between Brazil and Africa gave its Wideawake Airfield strategic value as a fueling station for the United States in World War II and the Cold War.

ANSWER: Ascension Island

[10] Ascension Island is part of an overseas territory administered by this nation. Another of its overseas territories was invaded by Argentina in the Falklands War.

ANSWER: United Kingdom of Great Britain and Northern Ireland [or UK; or Great Britain; do not accept or prompt on "England"]

[10] Along with Tristan de Cunha, Ascension is administered from this other volcanic island located 800 miles to the southeast. Its capital is Jamestown, and its Longwood House has been converted into a museum dedicated to this island's most famous resident.

ANSWER: Saint Helena [That resident was Napoleon Bonaparte in his second exile.]

15. In the final piece of this collection, the singer encounters an isolated hurdy-gurdy man and asks to accompany him. For 10 points each:

[10] Name this song cycle consisting of twenty-four settings of poems by Wilhelm Müller, whose poems were also set to music by the same composer later on in *Die schöne Müllerin*.

ANSWER: Winterreise [or Winter Journey]

[10] *Winterreise* was composed by this Austrian master of lieder, who defined the genre with such songs as "Death and the Maiden," "Gretchen at the Spinning Wheel," and "Erlkönig."

ANSWER: Franz Schubert

[10] "Erlkönig" was transcribed for solo violin by this Moravian virtuoso who self-consciously modeled himself on Paganini, and whose own compositions include *Six Polyphonic Studies*. After settling in London, he performed string quartets with Joachim, Wieniawski, and Piatti.

ANSWER: Heinrich Wilhelm Ernst

16. This character is accidentally circumcised by a falling window pane while urinating. For 10 points each:

[10] Name this character whose nose was flattened upon his birth by the bumbling Doctor Slopp. He narrates a Laurence Sterne novel about his *Life and Opinions*.

ANSWER: Tristram Shandy [or Tristram Shandy]

[10] *The Life and Opinions of Tristram Shandy* features this parson, supposedly a descendant of a Shakespearean character with the same name, who stars in Sterne's *A Sentimental Journey*.

ANSWER: Parson Yorick

[10] The 77th and 78th chapters of *Tristram Shandy* have this peculiar quality, which Tristram later informs us is a "lesson to the world, to let people tell their stories their own way."

ANSWER: they are blank [accept any answer indicating that there are no words in those chapters]

17. A revolutionary capital was set up at Nafplion during this war, in which the Arta-Volos Line was established as the northern border of a new kingdom. For 10 points each:

[10] Name this war in which men like Alexander Ypsilantis and the priest Papaflessas fought for independence from the Ottoman Empire. It was largely decided at the Battle of Navarino.

ANSWER: Greek War of Independence

[10] Before it was offered to Otto, the throne of the new Greek state was offered to, and rejected by, a prince of Saxe-Coburg and Gotha with this name. That man's successor of this same name used the Force Publique to exploit rubber workers in the Congo.

ANSWER: Leopold [or Leopold I; or Leopold II]

[10] This secret society led by Ypsilantis was largely responsible for launching the Greek War of Independence. It was heavily influenced by the Carbonari and failed to add Ioannis Kapodistrias as one of its members.

ANSWER: Filiki Eteria [or Friendly Society; or Society of Friends]

18. This song was written in response to the discontent of leading actor Harald Paulsen. For 10 points each:

[10] Name this song that the Street Singer sings to introduce its title criminal in the first scene of a play.

ANSWER: "Mack the Knife" [or "Mackie Messer"; or "The Ballad of Mack the Knife"; or "Die Moritat von Mackie Messer"]

[10] This composer wrote "Mack the Knife" for *The Threepenny Opera*, on which he collaborated with Bertolt Brecht.

ANSWER: Kurt Weill

[10] This woman translated John Gay's *The Beggar's Opera* into German for Brecht and Weill. She also had a share in writing *The Threepenny Opera*, with some scholars claiming that she, not Brecht, wrote most of it.

ANSWER: Elisabeth Hauptmann

19. Lord Kelvin first gave an estimate for this value as between 20 and 400 million years, but he was wrong because he didn't account for the effects of radioactive decay. For 10 points each:

[10] Identify this quantity for which a lower bound has been set by recent studies of zircon deposits in the Acasta Outcrop and the Jack Hills.

ANSWER: the age of the Earth [accept any answer indicating how old the planet Earth is]

[10] The currently accepted value of 4.5 billion years for the age of the Earth was first calculated by this scientist, who used a lead-lead dating scheme to date lead isotope ratios in the Canyon Diablo meteorite.

ANSWER: Clair Cameron Patterson

[10] It's not an isotope of lead or uranium, but this metal nuclide is often used to date rocks greater than 100,000 years old. Its decay product via electron capture is gaseous and gets trapped in bubbles within cooled rock, but escapes upon remelting or pressurization.

ANSWER: potassium-40 [or K-40; prompt on partial answers]

20. After this battle, the victors placed the head of Henry II the Pious on a spear and paraded it through nearby villages, and also filled nine sacks with the severed ears of their fallen enemies. For 10 points each:

[10] Name this 1241 clash that, along with the Battle of Mohi in Hungary two days later, marks the farthest extent of Mongol expansion into Europe. Despite their victory, the Mongols returned east upon news of Ogedei's death.

ANSWER: Battle of **Legnica** [or Battle of **Liegnitz**; or Battle of **Wahlstatt**]

[10] The Mongol "retreat" from Legnica is celebrated as a victory by some people of this country, where the battle took place. This country was later ruled by the Jagiellonian dynasty as part of a union with Lithuania.

ANSWER: **Poland**

[10] The winners at Legnica were from this Mongol khanate led by Batu Khan. Controlling a territory bordering the Black and Caspian Seas and the Urals, this khanate's two main factions were united under Tokhtamysh.

ANSWER: **Golden Horde** [or **Kipchak** Khanate; or **Ulus of Jochi**]

21. Name some winners of 2014 midterm elections, for 10 points each.

[10] This senator won his own race against Alison Grimes, and became the Majority Leader due to the Republican gains. Jon Stewart encouraged making videos that play music over a bizarre campaign ad of this man smiling.

ANSWER: Mitch **McConnell**

[10] This Republican Kansas governor was re-elected despite more than a hundred Republicans endorsing his Democratic opponent in response to this man's extensive, revenue-negative tax cuts.

ANSWER: Sam **Brownback**

[10] This senior New Hampshire senator defeated challenger Scott Brown, becoming one of the few Democrats to successfully defend her seat in a tossup race.

ANSWER: Jeanne **Shaheen**