

ACF Regionals 2015: A Livable Community

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Tossups

1. Robert Walker argued that failing to take this action would lead to an overflow of Northern insane asylums and British intervention. Juan Almonte resigned his diplomatic post in indignation over this event. Isaac Van Zandt began discussing this plan with Abel Upshur before Upshur died. Anson Jones proposed this plan, which reduced his own power but reserved the weaker side the right to split into five parts in the future. Five years after it, a payment of 10 million dollars helped the area at issue repay debts. The Regulator-Moderator war was calmed just before this deal was struck. The question of whether the Nueces River became a southern border in this transaction led to war later in James K. Polk's presidency. For 10 points, name this deal that ended the independent Lone Star Republic.

ANSWER: annexation of the Republic of Texas by the United States [or Annexation Treaty of 1845; accept any answer indicating that Texas is joining the United States of America as a state; do not accept any answer indicating the independence of Texas from Mexico]

2. Before he first met his lover, this character sat "alone," "enthroned in the market place." A soldier laments that this man, when not himself, "comes too short of that great property / which still should go with" him. This man hands a pack of belongings to a deserter who later laments "I am alone the villain of the earth." This man says "Let's mock the midnight bell" in the hopes of having one last drunken party. This man is spared after a rival argues, "let us be sacrificers, but not butchers." In a monologue, this friend of Enobarbus repeatedly calls that rival "an honorable man" while standing by a coffin after asking "Friends, Romans, countrymen: Lend me your ears." For 10 points, which rival of Brutus and lover of Cleopatra delivers the Funeral Oration in Shakespeare's *Julius Caesar*?

ANSWER: Mark Antony [or Marcus Antonius; prompt on "Mark" or "Marcus"]

3. In one of this director's films, the opening credits are preceded by a triple axial cut towards the protagonist's face as his head hits his pillow. This director's self-identified "best film" is a documentary set at an Elizabeth Street apartment featuring conversations with his parents Charles and Catherine. The protagonist of one of his films has a secret affair with his epileptic cousin and holds his hand over open flames in a restaurant kitchen and in church. This director used what he calls a "priest's-eye view" shot to show the aftermath of a massacre in a brothel run by the pimp Sport. In that film of his, the child prostitute Iris fascinates the disturbed title character, Travis Bickle. For 10 points, name this Italian-American director of *Mean Streets* and *Taxi Driver*.

ANSWER: Martin Scorsese

4. Along with orbitons and holons, quasiparticles carrying this property are formed from electrons in Luttinger liquids, which carry density waves in charge and this property. Similar wave-like disturbances in the collective structure of this property for a crystal lattice are quantized into magnons. This property separates orthohydrogen from parahydrogen, and its total value is 0 for singlet states and 1 for triplet states. This property causes a beam of silver atoms sent through an inhomogeneous magnetic field to split into two beams instead of forming a continuous band. This property, described by a set of Hermitian unitary matrices named for Wolfgang Pauli, was discovered in the Stern-Gerlach experiment. For 10 points, name this intrinsic form of angular momentum, whose quantum number can be plus or minus one-half for electrons.

ANSWER: spin angular momentum [prompt on "angular momentum" before mention]

5. Journalist John Dinges survived this initiative, which he claimed "brought terrorism to three continents" in a 2003 book. The murder of Hugo Banzer set back this initiative, which began two years after the Villa Grimaldi complex opened for use in interrogations. A disclosed diplomatic cable from Robert E. White revealed that this plan made use of a tele-communications channel built by the United States. In Washington, DC, a far-flung part of its "Phase III" targeted Orlando Letelier, a particular nuisance to the DINA agency led by School of the Americas alum Manuel Contreras. This campaign expanded into the "Dirty War" in Jorge Videla's Argentina. For 10 points, name this covert operation in which dictators ring-led by Augusto Pinochet suppressed and killed South American leftists.
ANSWER: Operation **Condor** [or Plan **Condor**; prompt on "Cold War;" prompt on descriptive answers such as "Pinochet suppressing dissidents"; do not accept or prompt on "Pinochet coup" at any point; do not accept or prompt on "Dirty War" at any point]

6. This singer instructs "put me onto your black motorcycle" and asks to "let me put on a show for you, daddy" in "Yayo," and repeats "go, go, go, go, go, this is my show" in a song on her latest album. This singer opens a song with "I've been out on that open road" before describing how she "hears the birds on the summer breeze." In another song, she invites you to "come on take a walk on the wild side" and sings "the road is long, we carry on, try to have fun in the meantime." This singer of "Ride" asks "will you still love me when I got nothing but my aching soul?" in another song. Cedric Gervais remixed her most successful song, in which she sings "kiss me hard before you go." For 10 points, name this American singer of "Born to Die," "Young and Beautiful," and "Summertime Sadness."
ANSWER: Lana **Del Rey** [or Elizabeth "Lizzy" **Grant**; prompt on "Lana"]

7. Some Vajrayana Buddhists consider these real-world creatures to be *Dakini*, a type of angelic psychopomp. They are propitiated at buildings made of three concentric stone circles of varying height. In a ritual meant to satisfy these creatures, a master known as a *rogyapa* uses a slicing knife during readings from the Tibetan Book of the Dead. On a peak named for these creatures near Ramnagar, the Heart Sutra and Lotus Sutra were delivered by the Buddha. When not shown as an eagle, Garuda's brother Jatayu is one of these creatures, whose recent chemical-caused extinction around Mumbai has threatened the use of *dakhmas* there by Parsis. For 10 points, name these birds which come to Tibetan "sky-burials" and Zoroastrian Towers of Silence to eat decomposing corpses.
ANSWER: **vultures** [prompt on "birds"]

8. The narrator of this novel becomes fascinated by the story of Margaret and Dolcino after a lecture on love by Ubertino. To prove his skill, a character in this novel discerns the location, appearance, and name of the horse Brunellus without having ever seen it. A man in this work has a vision of the plot of the *Cena Cypriani* before discovering how to open a mirror and enter the *finis Africae*. After a trial in this novel, Remigio is burned alongside a village girl and the hunchback Salvatore by the inquisitor Bernard Gui. At the end of this novel, the blind Jorge of Burgos eats the poisoned pages of Aristotle's *Second Book of Poetics* and burns down the monastery library. For 10 points, name this historical novel following William of Baskerville and Adso of Melk, by Umberto Eco.
ANSWER: *The **Name of the Rose*** [or *Il **nome della rosa***]

9. By processing one etching through four stages, this artist created a curtain of light that illuminates the good thief but casts the bad thief in shadow, as part of one of his best known drypoints. This artist included a hazily rendered flute player in the background of a work whose title figure wears a twelve-pointed black brooch on his golden cloak, has a crown above his turban, and knocks over a chalice in shock. That painting by this artist of *The Three Crosses* shows a hand emerging out of a smoke to show golden Hebrew letters illuminated on the wall. A large textbook is propped open in the corner of a painting by this man in which the corpse of Aris Kindt is being studied by Nicolaes Tulp. For 10 points, name this Dutch Baroque painter of *Belshazzar's Feast*, *The Anatomy Lesson*, and the massive *Night Watch*.
ANSWER: **Rembrandt** Harmenszoon van Rijn

10. For any natural number n , there exists only one of these numbers that can be expressed in the form " n -cubed plus 1". Kanold was the first to show that the amount of these numbers below a given integer n had an asymptotic form of little- O of the square root of n . With the exception of the smallest of these, all known so far can be written as the sum of the cubes of consecutive positive odd integers. For a Mersenne prime with exponent p , a number of this type can be found by multiplying the Mersenne prime by 2 to the power p minus 1, according to the Euler-Euclid conjecture. These numbers are a subset of the triangular numbers, and all numbers of this type found so far are even. For 10 points, name these numbers, such as 496 and 6, that are equal to the sum of their proper divisors.

ANSWER: perfect numbers

11. In a novel by this author, two advisors enlarge their eyes and ears to better see and hear dissidents. In that novel, American doctors wish to patent a mysterious illness contracted by the Ruler, who wishes to build the monumental skyscraper Marching to Heaven. During a drought in a novel by this author, Abdullah uses a catapult to obtain food while villagers walk to the city. In that novel by this man, Munira incidentally kills three brewery directors by burning down Wanja's brothel. In a third novel by this man, Mumbi becomes pregnant while her husband is in prison, Karanja allies with the British forces, and Mugo confesses to betraying the revolutionary Kihika. For 10 points, name this author of *Wizard of the Crow*, who set *Petals of Blood* and *A Grain of Wheat* in his native Kenya.

ANSWER: Ngũgĩ wa Thiong'o [or James Ngugi]

12. Cristobal de Morales composed a work in this genre known as the "Mille Regretz." A composition of this type named for the city of Tournai was probably used as a model by a developer of "ars nova" who wrote an influential example for four parts. Many compositions of this type incorporated the song "L'homme armé." Truncated examples of these compositions are referred to as "brevis," whereas full ones are called "solemnis." A popular legend holds that one of these compositions by Giovanni Pierluigi da Palestrina was responsible for preventing a ban on polyphonic music. These compositions always include a Kyrie, Gloria, Credo, Sanctus, and Agnus Dei. For 10 points, name this genre of composition that sets to music the five main parts of the liturgy of the Eucharist.

ANSWER: masses [or missae]

13. During this king's reign, his general Henri II de Montmorency beat the Spanish at the Battle of Veillane and helped Charles Gonzaga, the Duke of Nevers [nuh-VAIR], secure rule over Mantua. The Counts of Montrésor and Soissons plotted with this king's brother Gaston in a plot to overthrow him. Jean Guiton was mayor of a city that resisted this man's rule, holding out for 14 months until the signing of the Peace of Alais. Concino Concini advised the mother of this king, who acted as his regent until Charles de Luynes helped bring this king to power. This son of Marie de' Medici and husband of Anne of Austria was advised by a man who besieged the Huguenot city of La Rochelle. For 10 points, name this French king who succeeded Henry IV and employed Cardinal Richelieu.

ANSWER: Louis XIII of France

14. Metabolism of this molecule is disturbed by defects in WRN protein. This molecule is the subject of a signal amplification technique using its "branched" form. Bloom syndrome protein is an ATP-dependent enzyme that acts primarily on this molecule. A phenomenon exhibited by this molecule is described by quantities called "writhe" and "twist." This molecule's structures include its Z form and A form, but its standard structure is its B form. The amount of this molecule in a cell determines the C-value. This molecule exhibits supercoiling, and it is wound around octamers of proteins called histones. For 10 points, name this molecule packaged in the nucleus whose double helix structure was discovered by Watson and Crick.

ANSWER: DNA [or deoxyribonucleic acid]

15. This character marries a "minor movingpicture magnate" in Hollywood and divorces him in Mexico five years later. This character washes her mouth out with soap after kissing Charlie; earlier, she wrestles with a brother for kissing "a dirty girl like Natalie." At her father's funeral, this character pays her brother a hundred dollars to see her daughter, whom she later attempts to send two hundred dollars a month. That brother notices her muddy drawers as she climbs a tree, and repeatedly remarks that this character "smells of trees." This character's favorite brother, for whom she names her daughter, thinks of her before committing suicide at Harvard. For 10 points, name this sister of Jason, Quentin, and Benjy Compson in William Faulkner's *The Sound and the Fury*.

ANSWER: Caddy Compson [or Candace Compson; prompt on "Compson"]

16. One of these objects is owned by a giant whose wife births a fully armed son every six weeks. That owner of one of these objects, who escapes a plot to roast him alive in an iron house, is named Llasar Llaes Gynnewid. Along with a staff and a platter, Bran gives one to Matholwch as reparations, which Efnisien sacrifices himself to destroy and stop it from resurrecting the Irish dead. A non-Odin father of Tyr owns one of these objects, which was retrieved in a quest including the fishing trip in which Thor hooks Jormungand. Hymir owns a massive one of these that the gods bring to Aegir's feast for brewing beer. In one named Odrerir, Kvasir's blood is mixed with honey to make the mead of poetry. For 10 points, name these metal objects in which Ceridwen and other legendary witches brew potions.

ANSWER: cauldrons [or kettles; or pots; accept any descriptive answer indicating a large open container for mixing or storing liquid]

17. This ruler's dream of his son's death by an iron spear was fulfilled by an errant throw from the Phrygian exile Adrastus during a boar hunt. This man's father fought the Medes at a battle that coincided with a solar eclipse predicted by Thales of Miletus. This son of Alyattes is prominent in Book I of Herodotus' *Histories*, which relates how he allied with Amasis of Egypt and Nabonidus of Babylon for his best-known campaign. This man skirmished with his enemy at Pteria along the Halys River, which was followed by a crushing defeat at Thymbra and the siege of this man's capital at Sardis. This ruler misinterpreted the Oracle of Delphi's warning that a mighty empire would fall if he attacked Persia. For 10 points, name this wealthy king of Lydia who was defeated by Cyrus the Great.

ANSWER: Croesus [KREE-sus]

18. This thinker wrote that "framework theories" cannot make sense of radio host Goodman Ace's malapropisms. This philosopher argued that an actor's "pro-attitude" must be part of the "primary reason" that *causes* an action. This author of "A Nice Derangement of Epitaphs" proposed using Tarski's semantic theory of truth as the core for a "theory of meaning," though he later claimed "there is no such thing as a language." He included the "principle of charity," which assumes that another speaker has true beliefs, in a method for understanding unfamiliar speech "from scratch." His alternative to mind-body dualism held that no natural laws connect physical events with mental events. For 10 points, name this American philosopher who devised "radical interpretation" and anomalous monism.

ANSWER: Donald Herbert Davidson

19. In Proto-Indo-European studies, this kind of ablaut contrasts with both the "e-grade" and "o-grade" varieties. In English syntax, this form of complementizer is inherent to the sentence "I think they like me." This type of "derivation" is exemplified by using a noun such as "pen" as a verb, as in "I penned it." In the Chomsky hierarchy, unrestricted grammars are also called "Type-[this]". Arabic and Hebrew use this type of copula in sentences lacking a word for "to be." In linguistics, this term also denotes an inferred word or part of speech that isn't outwardly expressed. For 10 points, identify this number word which the Mayans wrote as a shell glyph before medieval Europeans started using it in calculations.

ANSWER: zero [or null; or 0; or zero-grade ablaut; or zero conjunction; or zero complementizer; or zero derivation; or Type-0 grammars; or zero copula; accept any of the above answers with null in place of "zero"]

20. One reaction of this type reacts alpha, beta-unsaturated carbonyls with Hantzsch esters under amine catalysis. Discoverers of an asymmetric version of this reaction used in the industrial synthesis of L-DOPA from an achiral arene won part of the 2001 Nobel Prize in Chemistry. That asymmetric form of this reaction can be catalyzed by ruthenium-BINAP complexes developed by Noyori. A square-planar tris(triphenylphosphine) rhodium(I) complex was developed in 1966 to homogeneously catalyze this reaction; that is Wilkinson's catalyst. When this reaction is incomplete, it can result in *cis-trans* isomerization, and thus its "partial" form is responsible for the production of trans fats. For 10 points, name this reduction that involves reacting a substrate with the namesake light gas.

ANSWER: **hydrogenation** [accept **transfer hydrogenation** before "incomplete" is read, and prompt on it afterwards; prompt on "reduction"]

TB. This author describes the title event of one poem as a "heart's clarion" and "world's wildfire" and states that "this... poor potsherd, patch, matchwood... is Immortal Diamond." This author wrote a poem whose various interpretations center on the word "Buckle" and describes how "blue-bleak embers... Fall, gall themselves, and gash gold-vermillion." This author of "That Nature is a Heraclitean Fire and of the Comfort of the Resurrection" remembered "the Happy Memory of five Franciscan Nuns exiled by the Falk Laws," in a poem that plays on the name of a sunken ship to describe both the vessel and the country from which it departed. For 10 points, name this English Jesuit poet of "The Wreck of the Deutschland," who used sprung rhythm in "The Windhover."

ANSWER: Gerard Manley **Hopkins**

Bonuses

1. This prayer, whose text is Aramaic rather than Hebrew, begins by exalting God's name with the words "Yitgadal v'yitkadash sh'meh rabbah." For 10 points each:

[10] Name this prayer used to mark off the end of each section in a Jewish prayer service. It is most known to non-Jews as a memorial prayer for the dead.

ANSWER: Kaddish [or Mourners' Kaddish; or Hatzi Kaddish; or Kaddish Shalem; or Kaddish Yatom]

[10] The Kaddish cannot be said until this number of adult Jews is present to assemble a *minyan*. A Biblical commandment of this number, from a set this large, forbids coveting thy neighbor's stuff.

ANSWER: ten [or 10; or Ten Commandments; or Tenth Commandment]

[10] In many services, the *V'ahavta* follows this extremely holy Jewish prayer, whose six words come from Deuteronomy. Many Jews aim to recite this prayer as their last words before death.

ANSWER: Shema Yisrael [or Sh'ma; the full prayer is "Shema Yisrael: Adonai eloheinu, Adonai echad"; or "Hear, O Israel: The Lord is our God; The Lord is One"]

2. This man adapted French alexandrines into a 14 syllable meter in his own language, using them to depict a sad, "strawberry"-mouthed princess surrounded by wealth in "Sonatina." For 10 points each:

[10] Name this rather swan-obsessed poet. The earlier Parnassians and Symbolists inspired him to start a movement focused on bright colors and ornate objects like gems.

ANSWER: Ruben Darío [or Felix Ruben Garcia Sarmiento]

[10] Darío shelved his usual *modernismo* style in this polemical, anti-American poem. Its namesake leader is an "Alexander-Nebuchadnezzar" who threatens Nicaragua as a "future invader."

ANSWER: "To Roosevelt" [or "A Roosevelt"]

[10] Ruben Darío's poem titled for this woman includes "sparkle-eyed Pan," who "watches and wonders why." William Butler Yeats also wrote a poem about her encounter with Zeus in the form of a swan.

ANSWER: Leda [accept "Leda and the Swan"]

3. The solvolysis of *tert*-butyl chloride in water is an example of one of these reactions. For 10 points each:

[10] Name these reactions which, when plotted, show a linear relationship between the logarithm of reactant concentration and time.

ANSWER: first-order reactions

[10] First-order reactions have a value for this quantity equal to the natural logarithm of 2 over the rate constant, which stays constant with time. For the decay of carbon-14, this quantity is approximately 5730 years.

ANSWER: half-life

[10] This schematic reaction mechanism was suggested to explain the first order kinetics of multistep gas-phase decomposition reactions. In it, a reactant molecule *A* is reversibly excited by a collision, and then irreversibly decays into products.

ANSWER: Lindemann-Hinshelwood mechanism

4. Answer the following about catfish in mythology and folklore, for 10 points each.

[10] Edward O'Reilly created this "legendary" figure of the American West, whose wife Slue-Foot Sue rode a giant catfish. This "fakelore" figure rides a tornado in another story.

ANSWER: Pecos Bill

[10] In Japanese tradition, a giant catfish called the Namazu causes these events when the god Kashima loses his grip on it. In Greek mythology, Poseidon hits the ground with his trident to cause these events.

ANSWER: earthquakes [or equivalent]

[10] In different sources, Osiris's penis was eaten either by a Nile catfish or by this sharp-nosed fish. Numerous Greek and Latin papyri were found at a town in upper Egypt named for this fish.

ANSWER: Oxyrhynchus fish

5. One character in this short story lives "in [her] house in Rosedale outside the complications of time." For 10 points each:

[10] Name this short story in which Miss Marsalles invites orphans from Greenhill School to her piano recital. A girl with Down syndrome performs the title piece to the amazement of the narrator.

ANSWER: "Dance of the Happy Shades"

[10] "Dance of the Happy Shades" titles a short story collection by this Canadian winner of the 2013 Nobel Prize in Literature, whose other short stories include "The View from Castle Rock" and "Boys and Girls."

ANSWER: Alice Ann Munro

[10] This Munro collection, her third, includes a story in which Edie decides to marry the mailman she met waiting for love letters, "How I Met My Husband." Its dark title story is about the sisters Char and Et.

ANSWER: Something I've Been Meaning to Tell You

6. One of these compounds is synthesized by dopamine-beta-hydroxylase. For 10 points each:

[10] Name this class of compounds named for 1,2-dihydroxybenzene that includes norepinephrine and epinephrine.

ANSWER: catecholamines [or CAs]

[10] Norepinephrine and epinephrine are produced in these glands that sit on top of the kidneys.

ANSWER: adrenal glands

[10] During the fight-or-flight response, catecholamines bind to these G protein-coupled receptors. Their 1 variety promotes release of glucagon and inhibits release of insulin, and their 2 variety induces smooth muscle contraction.

ANSWER: alpha-adrenergic receptors [or alpha adrenoceptors; prompt on "adrenergic" receptors; prompt on "adrenoceptors"]

7. This emperor's wife supposedly used astrology to predict that he would someday become emperor, and his sons quarreled over the succession, resulting in one's *damnatio memoriae* of the other. For 10 points each:

[10] Name this Roman emperor who came from Libya. This husband of Julia Domna, the victor in the Year of the Five Emperors, founded a dynasty continued by his sons Caracalla and Geta.

ANSWER: Lucius Septimius Severus Augustus [prompt on just "Septimius" or "Severus"]

[10] During his rise to power, Septimius Severus defeated Pescennius Niger at this place in Turkey. In a 333 BC battle at this location, Alexander the Great defeated Darius III, setting up their final clash at Gaugamela.

ANSWER: Issus [do not accept "Ipsus"]

[10] Septimius Severus died of illness in this city campaigning against the Caledonians. The death of Constantius I in this capital city of Britannia Inferior led to the proclamation of Constantine as emperor by troops here.

ANSWER: York [or Eboracum]

8. Depending on the size and shape of particles, this quantity can have a value between 25 and 40 degrees. For 10 points each:

[10] Name this quantity equal to the steepest angle at which a slope made of a given material remains stable.

ANSWER: angle of repose

[10] For slopes steeper than the angle of repose, mass wasting is liable to occur. This slowest form of mass wasting involves the gradual downhill movement of soil and regolith, and is accelerated by freeze-thaw cycles.

ANSWER: creep

[10] This other type of slow-wasting "slurry"-type process occurs when soil is saturated with water, and is faster than creep. It often occurs in the active layer above permafrost.

ANSWER: solifluction [or gelifluction]

9. In a triptych with three different views of the same scene, this man painted his friend Lucian Freud sitting on a chair while encased in a distorted cubic wire frame. For 10 points each:

[10] Name this Irish painter who painted orange background behind twisted gray beings representing the Furies in *Three Studies for Figures at the Base of a Crucifixion*. He also painted *Screaming Pope*.

ANSWER: Francis **Bacon**

[10] In another triptych, this lover of Bacon sits on a toilet seat in one panel and vomits into a sink in another. This man's overdose on barbiturates devastated Bacon in the early 1970s, leading to the creation of the Black Triptychs.

ANSWER: George **Dyer**

[10] Bacon painted a study of a shot from this film showing broken glasses hanging from the nose of a nurse who is bleeding from her eye. In another shot from this film, a baby carriage falls down the Odessa steps.

ANSWER: **Battleship Potemkin** [or **Bronenosets Potyomkin**]

10. Edward Seymour led an expedition to burn down Edinburgh during this conflict, and later crushed the Scottish at the Battle of Pinkie Cleugh so badly that the Scots refer to it as Black Saturday. For 10 points each:

[10] Name this war fought from 1543 to 1550 over enforcement of the Treaty of Greenwich, an agreement that had promised the marriage of an English prince and a Scottish queen.

ANSWER: War of the **Rough Wooing** [accept **Eight Years' War**]

[10] The Rough Wooing was launched by this Tudor king, who sought to unite England and Scotland under the rule of his son Edward VI. At the time he was married to Catherine Parr, his sixth and final wife.

ANSWER: **Henry VIII** of England

[10] Henry VIII ordered this action in the 1530s, partly to fund his wars and partly to assert control over the church. This action prompted Robert Aske and Thomas Darcy to lead a popular revolt known as the Pilgrimage of Grace.

ANSWER: **dissolution** of the **monasteries** [accept any answer indicating that **monasteries** within England are being: **dissolved**, **disbanded**, **expropriated**, etc.]

11. This orator coined the phrase "government of the people, by the people, for the people" two years after he imagined "mystic chords of memory" touched by "the better angels of our nature." For 10 points each:

[10] Name this orator who declared "A house divided against itself cannot stand" while losing a Senate race to incumbent Stephen Douglas.

ANSWER: Abraham **Lincoln**

[10] An anti-slavery speech given at this East Coast university in February 1860 raised Lincoln's national profile. In 2014, it ended its namesake founder's policy of full scholarships for every student.

ANSWER: **Cooper Union**

[10] This exact eight-word phrase opens the last sentence of Lincoln's second inaugural address. They, along with "firmness in the right," denote the attitude Americans ought to have when "bind[ing] up the nation's wounds."

ANSWER: **"With malice toward none, with charity for all"** [exact phrase required; be careful]

12. An early American poem chides one of these creatures for treating a "pettish wasp" gently. For 10 points each:

[10] Name this type of creature. One sermon used the image of this creature held over a fire as an analogue for a damned person, suspended in the pit of hell.

ANSWER: **spiders**

[10] This First Great Awakening preacher used the image of a spider, "or some loathsome insect," as he analyzed the Bible verse "their foot shall slide in due time" in his sermon "Sinners in the Hands of an Angry God."

ANSWER: Jonathan **Edwards**

[10] This Puritan poet wrote of the "pettish wasp" in "Upon a Spider Catching a Fly," and asked "make me, O Lord, thy Spinning Wheel complete" in "Huswifery."

ANSWER: Edward **Taylor**

13. In this experiment's competition stage, the Eagles burned the Rattlers' flag. For 10 points each:

[10] Name this experiment in which twenty-two campers at the namesake state park were divided into two groups. When the groups were forced to work together toward a "superordinate goal", intergroup conflict was reduced.

ANSWER: **Robbers Cave** experiment

[10] Muzafer Sherif, who led the Robbers Cave experiment, also studied this phenomenon. Solomon Asch's study of this phenomenon found that people would modify their opinion of the length of lines to match the majority opinion.

ANSWER: **conformity**

[10] Gerard and Deutsch showed that the conformity exhibited in the Asch experiment was caused by two kinds of this phenomenon: the normative, in which subjects react to others' opinions of them, and the informational, in which subjects assume others have correct opinions.

ANSWER: social **influence** [or normative **influence**; or informational **influence**]

14. This poem describes how the title object is "still suffused with brilliance from inside / like a lamp" and how "the stone... [glistens] like a wild beast's fur." For 10 points each:

[10] Name this poem, which states that "We cannot know [the title object's] legendary head / with eyes like ripening fruit." It concludes that "You must change your life."

ANSWER: "**Archaic Torso of Apollo**" [or "**Archaischer Torso Apollos**"]

[10] This German poet of *The Book of Hours*, *Sonnets to Orpheus*, and *Duino Elegies* published "Archaic Torso of Apollo" in his collection *New Poems*.

ANSWER: Rainer Maria **Rilke** [or René Karl Wilhelm Johann Josef Maria **Rilke**]

[10] This Duino Elegy, inspired by Picasso's *Family of Saltimbanques*, describes how a grasp "wings the strongest of men again, in jest / as King August the Strong would crush / a tin plate." It includes the line "*Subrisio saltat*."

ANSWER: The **Fifth** Elegy [or Die **fünfte** Elegie; or Duino Elegy #**5**; or "**But who are they**, tell me, these

Travellers"; or "**Wer aber sind sie**, sag mir, die Fahrennden"; accept answers with "Acrobats" in place of

"Travellers"; accept translations of the title containing any word for a group of people that generally moves about]

15. Answer the following about early Continental philosophers' thoughts on human relationships, for 10 points each.

[10] This French existentialist wrote that men have historically posited women as the essential Other, denying their full humanity, in *The Second Sex*.

ANSWER: Simone de **Beauvoir**

[10] This book by Jewish philosopher Martin Buber is named for a type of holistic personal relation worthy of the presence of God, which it contrasts with experiencing another person as a mere "It."

ANSWER: **I and Thou** [or **Ich und Du**]

[10] Emmanuel Lévinas posited this connection between self and the Other as the basis of ethical responsibility. If you choose not to kill the Other while engaged in this process, you can get a glimpse of the infinite.

ANSWER: **face-to-face** relation [or **face-to-face** encounter; or *rapport de* **face-à-face**]

16. This piece concludes with a scale-heavy *Presto* in F major after an elaborately ornamented D minor middle movement, in which the left hand alternates playing parallel thirds in the treble clef with pairs of repeated notes in the bass clef. For 10 points each:

[10] Name this three-movement keyboard work paired with the French Overture in its composer's *Clavier-Übung II*.

ANSWER: the **Italian Concerto** [or **Concerto after the Italian Taste**; or **Italienisches Konzert**; **Concerto nach Italienischem Gusto**]

[10] The *Italian Concerto* was written by this Baroque composer whose other keyboard works include the *English Suites* and *The Well-Tempered Clavier*.

ANSWER: Johann Sebastian **Bach**

[10] This later German composer wrote an A minor piano concerto in the modern sense after several abortive attempts. His other piano compositions include *Kreisleriana*.

ANSWER: Robert **Schumann**

17. Giant slag heaps which still survive today show that the city of Meroë discovered how to produce this good for the Nubian people south of Egypt. For 10 points each:

[10] Name this metal used to make the head of the *assegai* javelin. Its namesake age followed after the Bronze Age.

ANSWER: **iron** [or **Iron** Age]

[10] The gradual migration of this ethno-linguistic supergroup into southern Africa, displacing the Khoisan, was sped up by the development of iron tools. Their subgroups include the Swazi and Shona.

ANSWER: **Bantu** people

[10] This ancient culture of Nigeria north of the Benue river, which developed ironworking on its own by the 6th century BCE, is largely survived by the small terra cotta heads and figurines it made.

ANSWER: **Nok** culture

18. This character threatens to disown her daughter Pamina if she does not kill Sarastro in the aria "Der Hölle Rache kocht in meinem Herzen." For 10 points each:

[10] Name this difficult soprano role from Mozart's *The Magic Flute*.

ANSWER: the **Queen of the Night** [or die **Königin der Nacht**]

[10] The Queen of the Night is a soprano role described by this Italian word, indicating the presence of elaborate ornamentation of melodies and rapid runs, trills, and cadenzas, especially in the upper register.

ANSWER: **coloratura** soprano

[10] This coloratura soprano role, the title character of an early Handel opera, sings "Se vuoi pace" and "L'alma mia fra le tempeste." She plots against Ottone, and her son sings "Come nube che fugge."

ANSWER: **Agrippina**

19. These two values are related to each other by a factor of 8 pi times Planck's constant times the frequency cubed over the speed of light cubed, and are sometimes joined by a third value representing absorption. For 10 points each:

[10] Name these two values, one of which represents the probability of stimulated emission, and the other of which represents the probability of spontaneous emission.

ANSWER: **Einstein** coefficients [or **A** and **B** coefficients]

[10] Einstein's A and B coefficients are useful in describing these devices, in which the gain medium lifts electrons into excited states until population inversion is achieved. These devices depend on stimulated emission.

ANSWER: **lasers** [or **light amplification** through **stimulation** of **emitted radiation**]

[10] Laser beams have this property, which means that rays are parallel and do not spread out over long distances.

The fact that the beams first bounce between two parallel mirrors allows for this property.

ANSWER: **collimation** [accept word forms]

20. This region contains cave painting in the Loltun Caves, which are part of the so-called "Puuc route" along with archaeological sites like Labna and Uxmal. For 10 points each:

[10] Name this peninsula which separates the Gulf of Mexico from the Caribbean Sea.

ANSWER: **Yucatan** Peninsula

[10] The Yucatan completely lacks rivers, which means civilization has had to rely on these flooded sinkholes for fresh water. Many are connected by extensive underwater cave systems.

ANSWER: **cenotes**

[10] A ring-shaped distribution of cenotes was one of the first pieces of evidence of this event. It is also suggested by a thin layer of iridium in sedimentary deposits.

ANSWER: **asteroid** impact that killed the dinosaurs [or **Chicxulub** Crater impact; or **K-T** asteroid **impact**; prompt on answers like "Cretaceous-Paleogene extinction", "K-T extinction", "K-T boundary", or "extinction of the dinosaurs" that don't specifically mention an **asteroid**]

21. This ballet includes a mazurka and a czardas in its first act, and it concludes with a “Galop Finale.” For 10 points each:

[10] Name this ballet in which Swanhilde disguises herself as the title character.

ANSWER: *Coppelia*

[10] *Coppelia* was written by this French composer who wrote the “Flower Duet” for his opera *Lakmé*.

ANSWER: Leo **Delibes**

[10] Like *Coppelia*, this other ballet was based on a story by E. T. A. Hoffmann. This ballet set on Christmas Eve features such characters as the Mouse King and the Sugar Plum Fairy.

ANSWER: *The* *Nutcracker* [or *Shchelkunchik*; or *Casse-Noisette*]