

## ACF Regionals 2015: A Livable Community

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### Tossups

1. The façade of a building in this country is a large glass box that displays famous television images. That Institute for Sound and Vision was recently constructed in this country, whose Gothic buildings include the "whopper monument," St. John's Cathedral. An architect from this country collaborated with Bruce Mau on a massive book of fables, essays, photographs, diary excerpts, and designs titled *S,M,L,XL*. That architect from this country designed the glass and steel exterior of a public library in Seattle. The Royal Concertgebouw is located in the Museum Square of a city in this country. Kisho Kurokawa designed a new wing for a museum in this country that contains *The Potato Eaters*. For 10 points, name this home country of Rem Koolhaas that contains the Rijksmuseum ["rikes"-museum] and the Van Gogh Museum.

ANSWER: The Netherlands [or Nederland]

2. On some *thangka* wall-hangings, Yama holds one of these objects with a pig, a snake, and a rooster representing "three poisons" of bad attitude within it. Marpa and Milarepa began the practice of using horizontally-oriented examples of these objects, engraved with the mantra "Om mani padme hum," in Tibetan Buddhist prayer. As Vishnu's other hands hold a conch, a lotus, and a mace, his upper-right hand holds a weaponized one of these objects. A Jain symbol shows a hand surrounding one. In Alexandria, one of these implements was intended to break St. Catherine, but she broke it with a touch. One of these with eight sectors is a common representation of *dharm* in South Asian faiths. For 10 points, name these objects which allow chariots representing Jagganath to roll.

ANSWER: wheels [or discus; or dharmachakra; prompt on "circle"]

3. Members of this movement adopted the symbol of the House of York for White Rose Day, and flew a flag with the inscription "Tandem triumphans" during one conflict. The Act of Grace and Free Pardon freed many members of this movement from prison, though a few years later it again caused trouble during the Atterbury Plot. The song "Hey, Johnnie Cope, are Ye Waking Yet?" made fun of a general who lost to this group at Prestonpans during a war in which their figurehead escaped to the Isle of Skye dressed as a woman. That event came after a victory for the Duke of Cumberland over this movement at the Battle of Culloden Moor. For 10 points, name this mostly-Scottish movement that aimed to place the heirs of James II, like Bonnie Prince Charlie, on the throne.

ANSWER: Jacobitism [or Jacobites; accept Jacobite Risings]

4. To get married in this culture, a man and woman sit in front of his house in the morning until the bride's mother acknowledges them. During funerals, women in this culture hand out bundles of banana leaves and skirts. This culture has melded chanting and erotic dancing into its ritualized form of the sport cricket. Children and adolescents play at *kayta* by dry-humping each other in this culture, which measures a man's wealth by the contents of his yam house. This culture was cited as a counterexample to the Oedipus complex by an anthropologist who found that red necklaces and white armbands move clockwise and counterclockwise, respectively, among their islands. For 10 points, name this Pacific culture that practices the Kula ring, which was researched by Bronislaw Malinowski.

ANSWER: Trobriand Islanders [accept Kiriwinans]

5. One character in this play introduces an ongoing joke when he states the adage, "In time the savage bull doth bear the yoke." At a wedding in this play, all of the women wear masks. At the beginning of Act IV, a ceremony presided over by Friar Francis is halted after a woman hears herself compared to a "rotten orange" for her infidelity and then faints. A constable in this play retorts "Forget not that I am an ass." In this play, a daughter of Leonato loves a soldier who recently returned to Messina with Don Pedro. Its minor characters include the drunken Borachio and Dogberry. For 10 points, name this Shakespeare comedy, which ends with a double wedding for Hero and Claudio as well as Beatrice and Benedick.

ANSWER: **Much Ado About Nothing**

6. A Latin American document written in this Gregorian decade posited that the "bad faith of one man in shedding blood in a scandalous manner" in the last of 15 points. During this decade, the German merchant ship *Ypiranga* was seized as it tried to ship arms to rebels. The northernmost country with *haciendas* expropriated them during this decade, in which the Tampico affair threatened U.S. sailors. In the middle of this decade, ambassador Henry Lane Wilson telegraphed the US about the Ten Tragic Days as they unfolded. The Plan of Ayala was issued during this decade by the Liberation Army of the South. For 10 points, name this decade in which Emiliano Zapata gathered rebels, Francisco Madero ousted Porfirio Diaz, and the Zimmermann Telegram invited Mexico to World War I.

ANSWER: **1910s** CE

7. A paradox named for this man uses the anthropic principle in considering the existence of self-aware beings as part of rare fluctuations from states of chaos. A relation named for this man gives the ratio of number density between two locations in a plasma as the exponential of a value proportional to the difference in the potentials at each location. This man derived a theorem that provoked the argument that an irreversible process cannot be deduced from time-symmetric dynamics, an argument called Loschmidt's paradox. This deviser of the H-theorem defined the entropy of a system as the logarithm of the number of microstates multiplied by a constant equal to the gas constant divided by Avogadro's number. For 10 points, name this suicidal physicist whose namesake constant is symbolized  $k$ -sub-B.

ANSWER: Ludwig Eduard **Boltzmann**

8. The speaker of one poem by this author asks, "Does my haughtiness offend you?" after opening that poem with the concession "you may write me down in history / with your bitter, twisted lies." This author insisted in another poem that "you, created only a little lower / than the angels, have crouched too long in / the bruising darkness." This author of "Still I Rise" opened a third poem with the phrase "A Rock, A River, A Tree" and recorded that she stopped speaking for years after her mother's boyfriend raped her when she was eight. For 10 points, name this poet who read "On the Pulse of Morning" at Bill Clinton's inauguration and also wrote the autobiography *I Know Why the Caged Bird Sings*.

ANSWER: Maya **Angelou** [or Marguerite Annie **Johnson**]

9. This composer was inspired to write a piece upon hearing an E minor piece in the same genre by his colleague at the National Conservatory, Victor Herbert. The instruction *attacca subito* connects the first three tonally related sections of a piano trio by this composer whose last three sections are tonally disparate. He wrote a trilogy of overtures on "nature, life, and love" comprising *In Nature's Realm*, *Carnival*, and *Othello*. He never orchestrated an early A major cello concerto, but in 1895 he completed his perennially popular Cello Concerto in B Minor. The D-flat *Largo* second movement of his last symphony was inspired by *The Song of Hiawatha*. This composer of the "Dumky" Trio was also influenced by African-American spirituals. For 10 points, name this Czech composer of a symphony "From the New World."

ANSWER: Antonin **Dvorak**

10. The idea of decreasing surface area via "enforced hydrophobic interactions" was originally posited to explain the acceleration of this reaction in water by Breslow. In cases where one of the reactants in this reaction is also a cyclic ketone, it may be followed by the often-aromatizing cheletropic extrusion of carbon monoxide. Pyridine and pyran derivatives are accessible through variants of this reaction which use imines and ketones respectively. The HOMO-LUMO overlap of its two reactants usually explains why this reaction has a strong preference for the electron-withdrawing groups of one reactant pointing down and inward in the transition state; that is called the "endo" rule. For 10 points, name this [4+2] cycloaddition that forms cyclohexene derivatives from dienes and dienophiles.

ANSWER: Diels-Alder reaction

11. In October 2014, a spokesperson for this party amusingly replied "hell yeah" when asked if there was corruption in this party. Politicians from this party were implicated in buying flats intended for war widows at below-market prices in a housing society. This party pushed through the 2005 Right to Information Act using a coalition that the Left Front withdrew from in 2008. Since 2004, this party has led the United Progressive Alliance. This party lost a 2014 election where they handed out free milk to counter an opponent's strategy of handing out tea in paper cups with his face on them; they frequently criticized that opponent's response to 2002 anti-Muslim riots in Gujarat. For 10 points, name this party that lost an election to the BJP and Narendra Modi while represented by Rahul Gandhi.

ANSWER: Indian National Congress party [or INC; prompt on "United Progressive Alliance" or "UDP"]

12. After surviving a ship collision aboard the SS *Stonington*, this man believed he was marked for a divine purpose. Leigh Robinson and George Scoville tried to defend this man in court as he insisted on representing himself, pleading not guilty on account of others' medical malpractice. He unsuccessfully tried to sue John Humphrey Noyes's millenarian Oneida Community for kicking him out. This author of the hymn "I Am Going to the Lordy" wrote a speech opposing Winfield Scott Hancock, in return for which he expected an ambassadorship in Europe. He identified with a faction led by Roscoe Conkling by shouting "I am a stalwart of the Stalwarts" prior to his arrest near Long Branch, New Jersey in 1881. For 10 points, name this lunatic who assassinated President James Garfield.

ANSWER: Charles Julius Guiteau

13. Erwin Panofsky interpreted this painting using a Neoplatonic concept of duality discussed by Marsilio Ficino and Pico della Mirandola, and also suggested that two rabbits on the left represent fertility. Two men on horseback can be seen hunting a third rabbit with their dogs in the right background of this work. The bottom of this painting shows a water spigot next to a coat of arms, which forms a part of a frieze showing a horse and a flagellation scene. Both of this work's title figures wear red and white clothes, though the one with a burning jar of incense has most of her body bared. Commissioned by Niccolo Aurelio for his marriage to Laura Bagarotto, this painting shows a child dipping his hand into a sarcophagus full of water. For 10 points, name this Titian painting of two aspects of Venus.

ANSWER: Sacred and Profane Love [or Amor Sacro e Amor Profano; or Venus and the Bride]

14. A literary character of this name is given the motto "*Maggiore fretta, minore atto*" on a childish coat of arms in a novel illustrated by E.W. Kemble. Another character of this name gets a job from a man who spends his spare time collecting butterflies. The former man of this name boxed his young daughter about the ears for ignoring him, only to realize she had gone deaf from a fever. The latter character with this name allows an Australian pirate and would-be invader to leave his island unharmed, inadvertently causing the murder of Dain Waris. A man of this name is disguised as the "Sick Arab" by the Duke and the Dauphin aboard a raft. For 10 points, give this shared first name of a "Lord" of Patusan created by Joseph Conrad and a slave of Mrs. Watson who travels with Huckleberry Finn.

ANSWER: Jim [or Lord Jim]

15. In one story, these figures send some ants to cut down flowers and bring them back. Scholars debate why a member of this group is male but has a name beginning with a feminine prefix. Two of their enemies attack them with thistles and climb a tree which these figures cause to steadily grow. These figures are brought a message by a louse, inside of a toad, inside of a snake, inside of a hawk. They are born after a skull hanging from a fruit tree spits in their mother's hand. To recover a lost arm, these people pose as dentists and replace their enemy's teeth with corn. They ascend to become the sun and moon after they defeat Seven Macaw and travel through the House of Bats in order to beat the Lords of Xibalba. For 10 points, identify these brothers, the protagonists of the Mayan *Popol Vuh*.  
ANSWER: Mayan **Hero Twins** [accept **Xbalanque** and **Hunahpu** in either order]

16. Jabri et al. discovered that mice with this disease can be treated by blocking IL-15 signaling. Poorly managed cases of this disease can lead to a form of T-cell lymphoma called EATL, and this disease also has a connection to the single itchiest condition known to man, dermatitis herpetiformis. Pathologic findings in this disease include crypt hyperplasia and lymphocyte invasion of the lamina propria. Like type 1 diabetes, this disease is associated with the 0201 allele of HLA-DQB1. This disease, which is diagnosed by finding antibodies to tissue transglutaminase, is triggered by antibodies to gliadin peptides and causes villous blunting. For 10 points, name this disease that manifests as gluten intolerance.  
ANSWER: **celiac** disease [prompt on "gluten intolerance" until it is read]

17. Friedrich Nietzsche, in *Ecce Homo*, wrote that he feels "warmest" in proximity to this philosopher, because this philosopher affirms the need for destruction. Hegel, in his *Lectures on the History of Philosophy*, claims that his own logic adapts all the thought of this man, who proposed a cosmic "downward path" and "upward path." A finger-wagging follower of this man discusses the nature of words in Plato's dialogue *Cratylus*. This man's term *aletheia* was glossed as "disclosure" of truth by Martin Heidegger. This native of Ephesus discussed the attunement of the bow and lyre, and posited a unity of opposites. His belief in nature as "flux" might explain his adage that you can't step in the same river twice. For 10 points, name this pre-Socratic who said all things come from and return to fire.  
ANSWER: **Heraclitus** of Ephesus [or **Herákleitos**]

18. A Hamiltonian path in the polyhedron representing these entities can be found using the Steinhaus-Johnson-Trotter algorithm. The Fisher-Yates method is used for sampling a random one of these. The pure Braid group is the kernel of the homomorphism of the Braid group to the group of these things. Calculating a determinant involves summing products of matrix elements over all possible ones of these. Cayley's theorem states that a group  $G$  is isomorphic to a subgroup of the symmetric group acting on  $G$ , which is itself a set of these. The sign of the Levi-Civita symbol determines whether these things are odd or even, and they can be decomposed into transpositions. For a set of size  $n$ , there exist  $n$  factorial of, for 10 points, what rearrangements of a set for which order matters?  
ANSWER: **permutations** [prompt on "orderings"]

19. A very half-hearted siege was conducted during this war by John Hope, who was captured in this war's final battle. One commander in this war mistook the dust raised by departing baggage trains as a sign of retreat, resulting in a foolish attack that Bertrand Clausel unsuccessfully tried to salvage. After a crushing defeat, an army in this war was allowed a full retreat with all spoils by Hew Dalrymple in the Convention of Cintra. During the outbreak of this war, John IV escaped with his court to Brazil and the Bayonne Statute replaced Ferdinand VII with a foreign ruler. The Lines of Torres Vedras were built to defend Lisbon from Andre Massena in this war, which included the Duke of Wellington's victory at Salamanca. For 10 points, name this Napoleonic war fought in Spain and Portugal.  
ANSWER: **Peninsular** War [prompt on "Napoleonic Wars"]

20. This author discarded a chapter describing a confession of rape to Bishop Tikhon from a novel that includes the inadvertent hiring of a convict to kill a man's handicapped wife, whom he had married on a dare. In that novel by this man, a rebel group fears that the member with access to a printing press will betray them, so another man agrees to sign a note taking responsibility for his murder before killing himself. This author wrote of the suicides of Verkhovensky's men Kirilov and Stavrogin in his novel *The Possessed*. The servant Grigory tutors an epileptic lackey in his novel about the drunken murder victim Fyodor Pavlovich, his bastard son Smerdyakov, and his legitimate sons Dmitri, Ivan, and Alyosha. For 10 points, name this Russian author of *The Brothers Karamazov*.

ANSWER: Fyodor Mikhailovich **Dostoyevsky**

TB. In this poem, a "tear more rare than pearl" and a "precious golden lock" of hair from one character's head are used as payment. Another character in this poem is described as "full of wise upbraidings" and later assaulted during this poem's climax. When this poem appeared in its author's first volume of poetry, the author's brother provided the illustrations. In this poem, a character is reminded of the tragic tale of Jeanie, who "pined and pined away," "dwindled and grew grey, then fell with the first snow;" that character in this poem is warned to "not loiter so," lest she obey the refrain "Come buy, come buy." For 10 points, name this poem about the sisters Laura and Lizzie, who are tormented each evening by the calls of the title creatures, a work by Christina Rossetti.

ANSWER: "**Goblin Market**"

## Bonuses

1. Using formal language to refer to these symbols is "to blazon," and a blue and white checked pattern called vair is meant to represent squirrel fur on them. For 10 points each:

[10] Name these symbols, often depicted on shields, which are used to identify knights and nobles. They follow the rules of heraldry.

ANSWER: coats of arms [or crests; or heraldic devices]

[10] These ways of filling a coat of arms include solid "colours" and "metals," as well as patterns called furs. A crucial rule in heraldry is named for these and states that colour should not be put on colour, nor metal on metal.

ANSWER: tinctures

[10] A lion rampant stands opposite this other animal as a supporter on the side of the United Kingdom's full coat of arms. This creature is a national symbol of Scotland.

ANSWER: a unicorn argent armed, crined, and unguled [or white unicorn; prompt on "horse"]

2. This character is seduced by the unscrupulous lawyer Komarovsky. For 10 points each:

[10] Name this wife of the revolutionary Pasha Antipov. She spends a period of time living in an abandoned farmhouse with her lover, the father of her daughter Tania.

ANSWER: Lara [or Larisa Feodorovna Guishar; or Larisa Feodorovna Guishar]

[10] Lara captivates Dr. Zhivago in a novel by this Russian novelist, poet, and literary translator who was forced to decline his Nobel Prize.

ANSWER: Boris Leonidovich Pasternak

[10] Pasternak often translated the works of this French poet. Much of this poet's work inspired composers, such as Debussy, though he insults musicians in his poem *Moonlight*, referencing their "gaudy colors of disguise."

ANSWER: Paul-Marie Verlaine

3. This historian based a book about the "calamitous 14<sup>th</sup> century" on the life of nobleman Enguerrand VII of Coucy, covering such events as the Little Ice Age and the Battle of Nicopolis. For 10 points each:

[10] Name this author of *A Distant Mirror*, whose other popular-press histories include *The Proud Tower* and *The March of Folly*.

ANSWER: Barbara Wertheim Tuchman

[10] Tuchman won the Pulitzer for this work about the first month of World War I, in which she analyzed mistakes like the French eagerness to attack the Germans at Alsace and Lorraine, and the British preoccupation with Ireland.

ANSWER: *The* Guns of August

[10] This British military historian and scholar of the First World War wrote *A History of Warfare* and *The Face of Battle*, in which he discussed the mechanics of battle at Agincourt, Waterloo, and the Somme.

ANSWER: Sir John Desmond Patrick Keegan

4. This composer conducted the premiere of Stravinsky's *Dumbarton Oaks Concerto* and popularized Fauré's *Requiem* in English-speaking countries. For 10 points each:

[10] Name this composer and student of Fauré whose own students included Elliott Carter and Virgil Thomson.

ANSWER: Nadia Boulanger

[10] This American composer sought out Boulanger for lessons but never studied with her. His compositions include the *Cuban Overture* and *Rhapsody in Blue*.

ANSWER: George Gershwin

[10] Gershwin disapproved of Walter Damrosch's interpretation of this symphonic poem at its 1928 premiere. Gershwin scored it for an unusual ensemble including celesta, saxophones, and taxi horns.

ANSWER: *An* American in Paris

5. A German named Theodor von Neuhoff served briefly as a king of this island, and a republic here ended when this island was annexed to France following the Battle of Ponte Novu. For 10 points each:

[10] Name this Mediterranean island that formed a Roman province with its southern neighbor. It was the birthplace of Napoleon.

ANSWER: Corsica [or Corse]

[10] The Corsican Republic was led by this man, who wrote the Corsican Constitution in Italian. A visit to this man was recounted in James Boswell's *An Account of Corsica*.

ANSWER: Filippo Antonio Pasquale di Paoli

[10] Corsica was run by this city-state between the Battle of Meloria and the founding of the independent Corsican Republic. At one point, this republic transferred direct governance of Corsica to its Bank of Saint George.

ANSWER: Republic of Genoa [or Zena]

6. This artist portrayed a green demonic dog bloodying the back of a blindfolded prisoner in a prison cell as part of his series condemning the Abu Ghraib scandal, which he called "a permanent accusation." For 10 points each:

[10] Name this Colombian artist who, in his own versions of the *Mona Lisa* and *Arnolfini Wedding*, represented the subjects in his characteristic style, with rotund bodies and exaggerated volumes.

ANSWER: Fernando Botero Angulo

[10] This Mexican painter included serpents rising out of the sea around a pointing figure in *Departure of Quetzalcoatl*, part of a series he did for Dartmouth College entitled *The Epic of American Civilization*.

ANSWER: José Clemente Orozco

[10] Artists from this Latin American nation include Lygia Clark, who made a series of movable metal objects with hinges called *Bichos*. This nation's Mt. Corcovado is topped by the massive Art Deco statue *Christ the Redeemer*.

ANSWER: Federative Republic of Brazil [or República Federativa do Brasil]

7. At the end of the literary work in which he appears, he reconciles with his wife by playing "squirrels and bears." For 10 points each:

[10] Name this character. He rails against "the Establishment" and begins an affair with his wife's friend Helena Charles after hearing that his wife is pregnant.

ANSWER: Jimmy Porter [or Jimmy Porter]

[10] Jimmy Porter and his wife Alison appear in this play by John Osborne. Its focus on lower-class frustrations in postwar Britain led critics to coin the phrase "angry young men" for Osborne's literary generation.

ANSWER: Look Back in Anger

[10] In this play by another postwar British playwright, Harold Pinter, an affair between Emma and her husband's best friend Jerry is presented backwards from its end in 1977 to its beginning in 1968.

ANSWER: Betrayal

8. The shipwreck-causing Blue Men of the Minch are sometimes called the storm versions of these creatures. For 10 points each:

[10] Name these shapeshifting water spirits who often take the form of horses and drown any people who try to mount them.

ANSWER: water kelpies

[10] Kelpies are part of the mythology of Scotland, as is this elusive aquatic cryptid which was supposedly captured on film in the "surgeon's photo."

ANSWER: Loch Ness Monster [or Nessie]

[10] In the Hebrides, people propitiated a sea god named Shony with offerings of this substance. In Egyptian myth, Ra colors a whole lot of this substance red in an attempt to slake the bloodlust of Sekhmet.

ANSWER: beer [or ale; prompt on "alcohol"]

9. The frequency of this phenomenon equals the negative of the gyromagnetic ratio times the magnitude of magnetic field. For 10 points each:

[10] Name this form of precession caused by a torque exerted by an external magnetic field on a particle's magnetic dipole moment.

ANSWER: **Larmor** precession

[10] Thomas precession, on the other hand, combines the quantum mechanical spin-orbit interaction theory with this other theory developed by Einstein, which brings in time dilation between the electron and the nucleus.

ANSWER: **special** theory of **relativity** [or **SR**; or **STR**; prompt on "relativity"]

[10] This other type of precession is caused by the curvature of spacetime, and is sometimes named for the man who predicted it while examining the Earth-Moon system. It is not to be confused with Lense-Thirring precession.

ANSWER: **geodetic** precession [or **de Sitter** precession; accept "effect" in place of "precession"; do not accept "geodesic"]

10. The originator of this idea was inspired by Henry George's *Progress and Poverty* and Edward Bellamy's *Looking Backward*, and codified his ideas in the work *Tomorrow*. For 10 points each:

[10] Name this type of planned city proposed in 1898 by Ebenezer Howard. These cities would be built on a concentric model with six radiating boulevards, and would be surrounded by a "greenbelt."

ANSWER: **garden city** movement

[10] The Garden City movement inspired the Jackson Heights and Sunnyside neighborhoods in this borough of New York City, which is both the furthest east and the largest of the five boroughs.

ANSWER: **Queens**

[10] The Garden City movement was a precursor of this trend in city planning, which was propounded by Andrés Duany and Elizabeth Plater-Zyberk. Its emphasis on walkable neighborhoods is exemplified by the Florida towns of Seaside and Celebration.

ANSWER: **New Urbanism**

11. Answer the following about homosexuality in the Bible, for 10 points each.

[10] The laws in this Old Testament book include a prohibition on lying with a man as one would lie with a woman, calling that act a *to'ebah*, or "abomination."

ANSWER: Book of **Leviticus** [or **Vayikrah**]

[10] Rabbi Rebecca Alpert reads the deep friendship between this woman and Ruth as a lesbian relationship. Ruth tells this Moabite: "Whither thou goest, I will go."

ANSWER: **Naomi**

[10] The new Greek compound word *arsenokoitai*, meaning "men who lie with other men," appears in this Biblical book's chapter 6 condemnation of homosexuality. "*Anathema maranatha*" is another odd phrase in it.

ANSWER: **First** Epistle to the **Corinthians** [or **Corinthians 1**]

12. Diseases inherited in this fashion include Rett syndrome and Aicardi syndrome, both of which are fatal to hemizygous males. For 10 points each:

[10] Name this mode of inheritance in which both a female carrier and a male carrier would show the trait, and affected fathers cannot pass it on to their sons.

ANSWER: **X-linked dominant** [prompt on "X-linked"; prompt on "sex-linked"; prompt on "dominant"]

[10] Males with fatal X-linked dominant traits can sometimes survive if they have this condition, in which they have an extra X chromosome.

ANSWER: **Klinefelter** syndrome

[10] Alport syndrome is also X-linked dominant. This happens because the mutated protein demonstrates this mode of dominance, forming a non-functional complex with the functional protein.

ANSWER: **dominant-negative** [or **antimorphic**]



13. In the second act of this opera, a group of women sing the tavern song "Les tringles des sistres tintaient." For 10 points each:

[10] Name this opera in which the title character sings "En vain pour éviter," and a village girl expresses her determination to save the protagonist in "Je dis que rien ne m'épouvante."

ANSWER: Carmen

[10] When Carmen appears in the first act, she sings an aria commonly known as the *Habanera*. In a descending chromatic figure, she compares love to a rebellious one of these creatures in the aria's first line.

ANSWER: a bird [or oiseau]

[10] *Carmen* was composed by this Frenchman, whose other operas include *The Pearl Fishers*.

ANSWER: Georges Bizet

14. A biography by Elinor Burkett described a leader of this country as the "Iron Lady of the Middle East" who stepped down five years before Margaret Thatcher was elected in the UK. For 10 points each:

[10] Name this country which elected Prime Minister Golda Meir two years after it weathered the Six-Day War under Levi Eshkol.

ANSWER: State of Israel [or Medinat Yisrael]

[10] Number 242 among this set of official statements supported a "just and lasting peace" after the Six-Day War, which the PLO rejected. The 1674<sup>th</sup> one enshrined the "Responsibility to Protect" doctrine for sovereign states.

ANSWER: United Nations Security Council Resolutions [or UN Security Council Resolutions; or UNSC Resolutions; prompt on "resolutions;" do not accept "UN General Assembly Resolutions" or "UNGA Resolutions"]

[10] The UN brokered a cease-fire line denoted by this adjective in the Golan Heights after the Six-Day War. It was breached by Syrian troops during the Yom Kippur War.

ANSWER: Purple Line [or ha-kav ha-sagol]

15. This story's title characters meet while one is chopping down trees each engraved with the name of a prominent colonist. For 10 points each:

[10] Name this short story in which Old Scratch agrees to let the other title character have the riches buried in a swamp, provided that he use it to become a high-interest money lender.

ANSWER: "The Devil and Tom Walker"

[10] The treasure discussed with Tom Walker in that Washington Irving story was hidden by this historical figure. His treasure is uncovered in Sullivan's Island, South Carolina in Edgar Allan Poe's "The Gold-Bug."

ANSWER: Captain William Kidd

[10] This New Hampshire farmer's soul is saved in a ghostly court in "The Devil and Daniel Webster," a story Stephen Vincent Benet wrote after being inspired by Washington Irving's "The Devil and Tom Walker."

ANSWER: Jabez Stone [or Jabez Stone]

16. Contour analysis is often done on this scale, which is sometimes named for cyclones. For 10 points each:

[10] Name this meteorological scale on the order of 250 to 1000 kilometers, which is slightly larger than the mesoscopic scale.

ANSWER: synoptic scale

[10] The horizontal term in the Navier-Stokes equation at the synoptic scale incorporates this fictitious force, which only exists in rotating reference frames.

ANSWER: Coriolis force

[10] Geostrophic winds are theoretical winds generated by the exact balancing of the Coriolis force and the force caused by a gradient of this quantity. One unit for measuring this quantity is abbreviated mmHg.

ANSWER: pressure gradient force

17. In 2012, Stanford professor Sianne Ngai proposed "the cute," "the [merely] interesting," and "the zany" as three overlooked categories usable by this discipline today. For 10 points each:

[10] Name this branch of philosophy concerned with the nature of art and beauty.

ANSWER: aesthetics

[10] Ngai's categories add to this book's tetrad of the agreeable, good, beautiful, and sublime. It discusses a process by which a particular, like an artwork, is "subsumed under" a universal in sections on aesthetics and teleology.

ANSWER: Critique of Judgment [or Critique of the Power of Judgment; or Kritik der Urteilskraft] [by Kant]

[10] Sianne Ngai's work assumes that we live in this economic stage not predicted by classical Marxism, with a 2-word name. Fredric Jameson assessed the commodified "cultural logic of" this stage in his book *Postmodernism*.

ANSWER: late capitalism [do not accept or prompt on "capitalism"]

18. At this point, the Gibbs free energy is high enough to exceed the activation energy for the cooperative movement of monomers. For 10 points each:

[10] Name this first-order phase transition defined by an increase in viscosity beyond 10 to the 12 Pascal-seconds.

ANSWER: glass transition temperature [accept glass-liquid transition temperature]

[10] This type of polymer includes PVC and polypropylene. If you heat this type of plastic material above its glass transition temperature, it can be molded and sets when re-cooled.

ANSWER: thermoplastic polymers

[10] A classic example of a thermoplastic polymer is this DuPont-manufactured substance with formula poly(1,1,2,2-tetrafluoroethylene) that is used to line non-stick cookware.

ANSWER: Teflon

19. This event takes place while one party is working on writing the treatise "The Truth About Native Crime." For 10 points each:

[10] Name this event that begins with three men breaking into a house and knocking out a servant. The protagonist of the novel in which this event occurs hears about it at the Mission House.

ANSWER: Absalom Kumalo's murder of Arthur Jarvis [both underlined parts needed; accept reasonable equivalents involving the killing or shooting of Arthur Jarvis; prompt on partial answer; prompt on answers indicating that the murder victim's name was "Jarvis" without specifying first name]

[10] This priest at the Mission House writes a letter to Stephen Kumalo claiming that his sister Gertrude is ill and helps console Stephen after they see newspapers reporting the murder of Arthur Jarvis.

ANSWER: Theophilus Msimangu [or Theophilus Msimangu]

[10] Absalom Kumalo takes part in the murder of Arthur Jarvis in this novel by South African author Alan Paton.

ANSWER: Cry, the Beloved Country

20. Answer the following about white Americans who went to California before the '49 gold rush, for 10 points each.

[10] This group's attempt to get to California through the Sierra Nevadas in 1846 got them trapped, forcing many to resort to cannibalism until their rescue.

ANSWER: Donner Party

[10] This ethnically-Swiss pioneer names the "fort" from which relief efforts for the Donner Party were sent. An employee of his named James Marshall made the big gold discovery on this man's property.

ANSWER: John Sutter [or Johann Augustus Sutter Sr.][The property in question is Sutter's Mill.]

[10] With tallow, a trade in this natural material, sometimes called "California banknotes," brought whites to San Diego in the 1840s. Richard Henry Dana recalled gathering them for the ship *Pilgrim* in *Two Years Before the Mast*.

ANSWER: cattle hides [or cowhides; do not accept "leather"]

21. According to one legend, a leader of this project named Hiram Abiff was murdered by subordinates after it was completed using materials from Tyre. For 10 points each:

[10] Name this achievement of the Biblical king Solomon. According to Islamic lore, it was accomplished by enslaving djinn with a ring rather than human laborers.

ANSWER: building the First Temple [or building Solomon's Temple; or building the Beit HaMikdash; accept clear equivalents; do not accept answers specifying the "Second Temple"]

[10] The legend of Hiram Abiff comes from this secret society, whose members are divided into ranks called degrees and use secret lodges. 18<sup>th</sup>-century Europeans feared that members, such as Mozart, opposed Christianity.

ANSWER: Freemasonry [or Freemasons; or Masonic Order]

[10] *Fama Fraternitatis* and *The Chemical Wedding* were texts revered by this 17<sup>th</sup>-century society which included Johan Andreae and Henry Fludd. The symbol of this pre-Masonic, alchemy-inspired society contained a flower.

ANSWER: Rosicrucian Order [or Rosicrucians; or Rosicrucianism; or Brotherhood of the Rosy Cross]

22. A 2004 initiative to reduce piracy in this important economic waterway was spearheaded by Singapore, Malaysia, and Indonesia. For 10 points each:

[10] Name this strait that connects the Indian and Pacific Oceans by cutting between Sumatra and the Malay Peninsula.

ANSWER: Strait of Malacca

[10] One solution to overcome the congestion in the Straits of Malacca is to build a canal across this Thai isthmus. Its construction will be highly subsidized by the Chinese government.

ANSWER: Isthmus of Kra

[10] In 2005, Booz Allen Hamilton coined this term for China's strategy of creating a network of facilities across Southeast Asia and the Indian Ocean. In a 2013 speech, Xi Jinping tried to rebrand it as a "maritime silk road."

ANSWER: string of pearls