ACF Regionals 2017
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Tossups by Columbia A (Charlie Dees, Rafael Krichevsky, Ben Zhang, Kevin Koai), Carleton A (Paul Kirk-Davidoff, Sarah Wang, Ben Koppel, Sanjay Chepuri), and Michigan State (Harris Bunker, Trent Koch, Conner Reynolds, Lucas Weingartz, Erik Bubolz)

1. Press coverage of a crime committed in this location was analyzed in Joan Didion's essay "Sentimental Journeys." People were suspected of committing a crime in this location after police misunderstood their references to the Tone Loc ("tone" loak) song "Wild Thing." A full-page ad with the message "bring back the death penalty; bring back our police!" was prompted by a crime in this location that resulted in Raymond Kelly convening the Armstrong Commission after Robert Morgenthau vacated the convictions of the men once thought to be responsible. A 2012 Ken Burns documentary examines a crime that occurred in this location during Ed Koch's (KOTCH's) term as mayor. In 1989, five men of color were falsely convicted of raping a white jogger in, for 10 points, what public space in Manhattan?
ANSWER: **Central Park** [prompt on "New York City" or "NYC" or "Manhattan"]

2. In Natsume Soseki's novel *Sanshiro*, Professor Hirota lends an English-language book by this author to the title character, who associates the book with the professor because both are impenetrable yet interesting. W. G. Sebald's *The Rings of Saturn* incorporates a drawing of a pattern with five points taken from this man's writings. Javier Marías has translated two works by this physician and author into Spanish, including his spiritual testament on the "Religion of a Doctor." He wrote that man is a "noble animal, splendid in ashes, and pompous in the grave" in a passage that concludes "life is pure flame, and we live by an invisible Sun within us"; that passage by this author of *The Garden of Cyrus* was inspired by the discovery of a Roman burial site in Norfolk. For 10 points, name this 17th-century English writer of *Hydriotaphia*, also known as *Urn Burial*.
ANSWER: Sir Thomas **Browne**

3. Barry Popik's research revealed that the earliest instances of a phrase pairing these two words were in Christopher Bullock's *Cobbler of Preston* and Edward Ward's *Dancing Devils*. Andreas Petersen designed a resource-denying mono-white *Magic: The Gathering* deck named after these two words. A Dorothy Parker collection is named after these two words, which are both negated in the title of a 2011 *New Yorker* profile of Peter Thiel (TEEL). A phrase pairing these two words appears in a letter to Jean-Baptiste Leroy noting that the U.S. Constitution has been established and "has an appearance that promises permanency." Ben Franklin said that "in this world nothing can be said to be certain" except, for 10 points, what two eventualities that reflect human mortality and the need for a government to fund itself?
ANSWER: **death** and **tax**es [accept answers in either order; accept word forms of either answer such as **dying** or **taxation**; accept "**No Death, No Taxes**"]

4. The SSC buffer used in Southern blots contains water, sodium chloride, and a salt of this compound. This compound reduces gold in the Turkevich method for making nanoparticles. In 2008, Richard Lenski discovered that *E. coli* spontaneously evolved the ability to metabolize this compound. This compound and ATP inhibit phospho·fructo·kinase. A lyase named for this compound turns it into acetyl CoA (ah-SEE-till KOH-ay) in the cytosol in the first step of fatty acid biosynthesis. This tricarboxylic acid is isomerized by the iron–sulfur protein aconitase (ah-KON-ih-tace) and is formed by a Claisen (CLY-zen) condensation from oxaloacetate (ox-AL-oh-ASS-eh-tate) right after pyruvate oxidation; then, in a pathway that occurs in the mitochondrial matrix, it's oxidized to an $F·A·D·H_2$, two $N·A·D·H$, two CO_2, and another oxaloacetate. For 10 points, what organic acid sometimes names the Krebs cycle?
ANSWER: **citric acid** [or sodium **citrate**; accept **citric acid** cycle]

5. This book argues that nonsense shouldn't be understood as gibberish but rather as something that lies beyond the limits of sense. This book states that philosophy is not a natural science but instead is an activity that clarifies thoughts and can set limits to disputations in natural science. The introduction to this book was written by Bertrand Russell, who wrote the article "The Philosophy of Logical Atomism" after reading it. This book posits that facts are pictures and that language is used to make those pictures. This book is presented in a series of declarative statements that are hierarchically numbered based on their relation to its seven main propositions. The proposition "the world is everything that is the case" appears in, for 10 points, what early text by Ludwig Wittgenstein (VITT-gen-shtyne)?
ANSWER: _**Tractatus Logico-Philosophicus**_ [prompt on "the _Tractatus_" or "_TLP_"]

6. Members of this family title a Peter Ackroyd novel in which the bookseller William Ireland presents them with a lost Shakespeare play called _Vortigern_. Kathy Watson wrote a biography of a woman from this family called _The Devil Kissed Her_, which describes how that woman stabbed her paralyzed mother to death with a carving knife. In an essay by a man from this family, Ho-ti leaves his cottage in the care of his son Bo-bo, who sets the cottage on fire and inadvertently learns how good pork tastes; that member of this family included "Old China" and "A Dissertation upon Roast Pig" in his collection _Essays of Elia_. The children's adaptations found in 1807's _Tales from Shakespeare_ were by members of, for 10 points, what family of London writers including Mary and her brother Charles?
ANSWER: **Lamb** family [accept the **Lambs** or Charles **Lamb** or Mary **Lamb** or _The **Lambs of London**_]

7. In his sonata for this instrument, Dmitri Shostakovich subtitled the final movement _adagio_ "in the memory of Beethoven" and quoted the _Moonlight_ Sonata; that sonata for this instrument was Shostakovich's final composition. A concerto for this instrument has a version completed by the composer's son Peter, though the standard version was edited by Tibor Serly. A William Walton concerto for this instrument, dedicated "to Christabel," was commissioned by Lionel Tertis. A piece for this instrument and orchestra contains a movement called "Orgy of the Brigands" and was written at the request of Niccolò Paganini. The soloist in _Harold in Italy_ plays, for 10 points, what alto-clef instrument that forms a string quartet with two violins and a cello?
ANSWER: **viola** [accept (Shostakovich's) **Viola** Sonata or (Shostakovich's) Sonata for **Viola** and Piano or (Bartók's) **Viola** Concerto or (Walton's) **Viola** Concerto]

8. This reaction is done in DCM to ring-expand a dioxane in the last step of Avery's artemisinin (ar-teh-MIS-in-in) synthesis. The Baeyer–Villiger ("buyer"-FIH-lih-ger) intermediate is named for its similarity to this reaction's intermediate, a zwitterionic carbonyl oxide. This reaction is worked up reductively using zinc and acetic acid or oxidatively with H_2O_2. It occurs by a 1,3 (one three) dipolar cycloaddition and subsequent retro-dipolar cycloaddition to break a five-member ring according to Criegee's (KREE-gay's) mechanism. Diurea ("die"-yur-EE-ah) is added to poly·buta·diene and rubber to prevent them from undergoing this reaction. Potassium permanganate does the same thing as this reaction, except that it oxidizes monosubstituted carbons past aldehydes to carboxylic acids. For 10 points, in what reaction does a triatomic allotrope of oxygen cleave double bonds?
ANSWER: **ozonolysis** [or **ozone cleavage**; or **ozone cracking**; prompt on alkene <u>cleavage</u>; prompt on <u>ozone</u> by itself until "cleavage" is read, then accept it afterwards]

9. A speech given after this event claimed that its victim "represented the living, the eternal truths, reminding us of the right path, drawing us from error." The perpetrator of this action was forced to wear a nose ring as a child because his superstitious parents feared having a son. The victim of this event had criticized a pogrom perpetrated during "Direct Action Day," part of a violent period called the "Week of the Long Knives." Henri Cartier-Bresson documented the public mourning after this event, which was perpetrated by radicals associated with the RSS and Hindu Mahasabha. A speech beginning "the light has gone out of our lives" mourned the victim of this event, who was shot by Nathuram Godse. For 10 points, what 1948 event claimed the life of a nonviolent Indian activist?
ANSWER: **assassination** of Mahatma **Gandhi** [or **assassination** of Mohandas Karamchand **Gandhi**; or **assassination** of the **Mahatma**; or **assassination** of **Bapu**; accept answers mentioning **Gandhi** or **Mahatma** and an indication of his **killing** or **murder** or **shooting** or similar]

10. According to the *Yoga Vasistha*, a corner of Mount Meru containing a wish-fulfilling tree was home to one of these animals named Bhusunda, who was the oldest being in the world. One of these animals transformed himself into a hemlock needle to trick a woman into drinking him, after which he became her baby. The Haida ("HIDE"-ah) state that this animal opened a cockleshell to release the first men, who then created women by mating with a chiton (KYE-tahn) mollusk. Many Viking chieftains used the image of this animal on their banners, invoking a pair of them named "thought" and "memory." A trickster in the form of this animal opened a box to release the sun, moon, and stars. Odin's two pets Huginn and Muninn and a Pacific Northwest creator took the form of, for 10 points, what black-feathered birds?
ANSWER: **raven**s [accept **crow**s]

11. This man urged other architects to abandon prepackaged styles that imitate past architecture and embrace science and industry in his address "The Art and Craft of the Machine." William Storrer catalogued the works of this architect, which include a personal home featuring a hexagonal "cabaret theater" room built from concrete and stone to enhance its acoustics. He worked with his students Kaneji Domoto and Aaron Resnick on a planned community, known as a "historic district," in Westchester County, New York. He mistakenly attributed to Samuel Butler a term that he used to describe a building built for Herbert and Katherine Jacobs in Madison, Wisconsin. The Usonian style was championed by, for 10 points, what American architect who designed houses called Taliesin (tall-ee-AY-sin) and Fallingwater?
ANSWER: Frank Lloyd **Wright** [or Frank Lincoln **Wright**]

12. In a method used in this field of science, it is common to straighten out hyperbolic curves by correcting for normal moveout. Another method used in this field of science considers a halfspace model and uses a y-axis of time minus distance over velocity to construct a reduced travel time plot. For this field's SNREI ("sneery") model, nonnegative integer subscripts before and after the letters "S" or "T" are used to classify normal modes, the latter being toroidal modes that correspond to SH propagation. A technique named for "reflection" and this field uses geophones to translate velocity into voltage. The founder of this field, Andrija Mohorovičić (moh-hoh-RAW-vih-chich), discovered the crust and mantle by observing P waves. For 10 points, what branch of geology involves the study of elastic waves produced by earthquakes?
ANSWER: **seismology** [accept word forms such as **seismological** study or **seismologist**s; accept refraction **seismology** or reflection **seismology** or **seismography**; prompt on "geophysics" or "geodynamics" or "geology" before "geology"]

13. This poet described "Saint Christopher, naked" and "full of celestial tongues" asking a "child / playing a sweet distracted bagpipe" if he can lift up her dress to see her naked body. Another poem by this man contains the refrain "green, how I want you green." This poet of "Preciosa and the Breeze" and "Ballad of the Sleepwalker" wrote of a "fat lady" who is the "moon's antagonist" in the poem "Landscape of a Vomiting Multitude," which describes a scene on Coney Island. The phrases "I will not see it" and "at five o'clock in the afternoon" are repeated in a poem by this author that was inspired by the death of Ignacio Sánchez Mejías (may-HEE-ahs). *Gypsy Ballads* and *Poet in New York* are collections by, for 10 points, what Spanish author of "Lament for the Death of a Bullfighter" and the play *Blood Wedding*?
ANSWER: Federico **García** **Lorca** [accept either underlined portion; or Federico del Sagrado Corazón de Jesús **García** **Lorca** (accept either underlined portion)]

14. After this war had already been concluded, a disgruntled commander plundered church lands near Bury St. Edmunds, where he choked to death on his meal. The *Peterborough Chronicle* states that, during this conflict, "men said openly that Christ and his saints slept." After Robert of Gloucester was captured in this war's Rout of Winchester, he was exchanged for a king who had been imprisoned since losing the Battle of Lincoln. The leader of one side in this war escaped from Oxford Castle by wearing white and crossing a frozen moat during a snowstorm. The Treaty of Wallingford ended this war, which began after the death of William Adelin on the *White Ship*. For 10 points, what English civil war between Empress Matilda and Stephen of Blois was named for its lawless nature?
ANSWER: The **Anarchy** [do not accept or prompt on "English Civil War" or similar answers]

15. The argument that this concept troublingly implies sexlessness is central to a Howard Eilberg-Schwartz monograph about a "phallus." Jan Assmann's (yahn AHS-mahn's) book on the "price of" this concept explains its origins as a break from a cosmos-oriented paradigm. In the early 20th century, Wilhelm Schmidt argued that this concept originated from primitive non-Western cultures in an "Ur" form before taking on its final shape. This concept, whose adoption in Persia is central to Karl Jaspers's (YAHS-perz's) theory about the Axial Age, is central to a book arguing that it arose after a group partly composed of Midianites murdered a man who was not a Jew but instead an Egyptian of noble birth who adhered to the doctrines of Akhenaten. For 10 points, what religious concept is paired with "Moses" in a Sigmund Freud title?
ANSWER: **monotheism** [accept word forms or equivalents such as the **oneness of God**; accept *The **Price of Monotheism**__ or Ur-**monotheism** or *__Moses and Monotheism__*]

16. An investigative journalist in this country uncovered both the AKH scandal, involving wasted funds for a hospital in its capital, and the Noricum affair, in which arms were sold illegally to Iran. This country gave in to the demands of the Palestinian terrorist group As-Sa'iqa (ahs-sah-EE-kah) by closing the Schönau ("SHOE-now") transit center. With Paul McCartney, a politician from this country organized a series of concerts for the relief of Cambodian war victims. This country's far-right Freedom Party was led by Jörg Haider (yerg "HI"-der). A politician from this country, who was accused of lying about his involvement in Nazi war crimes, succeeded U Thant (oo tant) as U.N. secretary-general. Kurt Waldheim (VAHLD-hyme) was from, for 10 points, what country that was handed over to Nazi Germany by Arthur Seyss-Inquart (ZICE INK-vahrt) in the *Anschluss*?
ANSWER: Republic of **Austria** [or Republik **Österreich**]

17. This artist was inspired by Thomas Percy's translation of the *Northern Antiquities* to paint a work in which a man cowers in fear in the prow of a boat as a naked god pulls at a monster with a chain. This artist was saved from financial ruin by his principal patron, Thomas Coutts, after the public failure of a venture inspired by this artist's participation in John Boydell's Shakespeare Gallery. This artist, the driving force behind the Milton Gallery, painted *Thor Battering the Midgard Serpent* and a work in which a small table contains a book, a mirror, and a vial; in that work by this artist, a white-eyed horse pokes its head from behind a curtain while an incubus sits on the chest of a sleeping woman. For 10 points, identify this Anglo-Swiss artist who painted *The Nightmare*.
ANSWER: Henry **Fuseli** (FOO-sell-ee) [or Johann Heinrich **Füssli**]

18. In two dimensions, the x and y components of this quantity are set equal to partial derivatives of the stream function, such that the definitions satisfy the Cauchy–Riemann equations. A partial derivative with respect to time plus "this quantity dot the gradient" defines a type of derivative that, depending on the source, is described as "total," "substantial," or "material." A streamline is defined as being parallel to the components of this quantity's field, whose line integral around a closed curve defines the circulation. The mass flux is defined as density times this quantity's vector field. Setting the partial time derivative, divergence, or curl of this quantity equal to zero defines, respectively, "steady," "incompressible," and "irrotational" flows. For 10 points, what quantity's derivative yields a fluid's acceleration?
ANSWER: fluid flow **velocity** [accept **u** or **v**]

19. This phrase, which provides the subtitle of a 1926 Basil Mathews book about a religion "on trek," was the title of the final section of a 1990 Bernard Lewis essay in *The Atlantic* titled for the "roots" of a particular "rage." Hans Köchler coined a similar phrase to this one, except with "dialogue" as the first word. An essay published in *Foreign Affairs* that identified a "fault line" running through the former Yugoslavia was titled for this phrase followed by a question mark. This phrase titles an essay and book, published in response to Francis Fukuyama's *The End of History and the Last Man*, that predict the rise of global conflicts based on cultural divisions. For 10 points, what phrase titles a book on the "remaking of world order" by Samuel Huntington?
ANSWER: (the) **clash of civilizations** [accept "The **Clash of Civilizations**?" or *The **Clash of Civilizations** and the Remaking of World Order* or *Young Islam on Trek: A **Study in the Clash of Civilizations**__]

20. In a 1979 play, a character with this profession laughs at her own joke after asking "Doctor Livingstone, I presume?"; in that John Pielmeier play, the psychiatrist Martha Livingstone evaluates Agnes, a woman in this profession who has been accused of murdering her newborn baby. Before going to take a nap, a character in this profession instructs a seven-year-old named Thomas to wield a gun against Aloysius (al-oo-ISH-us), who needs to use the bathroom; that woman in this profession kills her former pupil Gary Sullivan for being gay and "explains it all for you" in a Christopher Durang play. In a play by John Patrick Shanley, a member of this profession suspects that Donald Muller is the victim of Father Flynn's abuse. Aloysius Beauvier from the play *Doubt* holds, for 10 points, what job also held by Sister Mary Ignatius?

ANSWER: **nun**s [accept **sister**s before "Sister"; do not accept or prompt on "priests" or similar answers]

TB. A hidden message warning of this king's activities was discovered when the Spartans, on the suggestion of their queen, scraped away the wax from a pair of blank writing tablets. This man had the eldest son of Pythius sawn in half after Pythius interpreted an eclipse as a bad omen. While in exile, Demaratus (deh-mah-RAT-us) fought for this king, who once paused a march to admire a plane tree that he cloaked in golden jewelry. A bribe convinced Eurybiades (yu-ree-BY-ah-dees) to fight this man's navy at Artemisium (ar-teh-MISS-ee-um); that navy was later defeated by Themistocles while this king watched from a throne on Mount Aigaleo ("eye"-gah-LAY-oh). This king built pontoon bridges across the Hellespont during a campaign in which his forces lost the Battle of Salamis (SAL-uh-miss). For 10 points, name this king of Persia who defeated Leonidas at Thermopylae (ther-MAH-poh-lie) during his invasion of Greece.

ANSWER: **Xerxes I** [or **Xerxes the Great**; prompt on "Xerxes"]

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1. Lindsay Lohan recently met with this leader and a Syrian refugee, essentially confirming the theory that she has become a paid spokesperson for this man's Justice and Development Party. For 10 points each:
[10] Name this president of Turkey who instituted a state of emergency after a July 2016 coup against his government.
ANSWER: Recep Tayyip **Erdogan** (reh-ZHEP "tie"-EEP "AIR"-doh-wan)
[10] Erdogan blamed the July coup on this man, a moderate imam who lives in exile in Saylorsburg, Pennsylvania. Some allege that Texas's "Harmony" charter-school franchise is a money-laundering front for this man's namesake movement, often referred to as *hizmet* or *cemaat* (cheh-MAHT).
ANSWER: Fethullah **Gülen** (feh-TOO-lah goo-LEN or goo-LAHN) [or Muhammad Fethullah **Gülen**; accept **Gülen** movement or **Gülen**ist movement]
[10] Suspicions that Lohan was working for Erdogan began after she Instagrammed a slogan claiming that "the world is bigger than" this number. Erdogan often claims that the "world is bigger than" this number as part of his initiative to reform the U.N. Security Council.
ANSWER: **five** [accept "the world is bigger than **five**"or "Dünya **beş**ten büyüktür"]

2. The chorda tympani (KOR-dah TIM-pah-nee) is a branch of this nerve that enables taste. For 10 points each:
[10] Name this seventh cranial nerve. It innervates the occipitofrontalis, buccinator, and zygomatic (OX-ip-ih-toh-fron-TAL-is, BUX-ih-nay-tor, and ZIE-goh-mat-ic) muscles.
ANSWER: **facial** nerve
[10] A dysfunction in the facial nerve causes this palsy, which results in one side of the face drooping due to an inability to control those muscles. It was named for a Scottish surgeon.
ANSWER: **Bell**'s palsy
[10] Facial palsy can also be a symptom of this infectious disease, which is caused by bacteria in the *Borrelia* genus. This zoonotic (ZOH-uh-not-ik) disease can be diagnosed by the presence of an *erythema migrans* rash.
ANSWER: **Lyme** disease [do not accept or prompt on "Lyme's disease"]

3. This state was merged into the Taurida Oblast by Russia after its 1783 annexation, which was recognized by the Treaty of Jassy (YAH-see) and resulted in an exodus of Tatars into Ottoman territory. For 10 points each:
[10] Name this country that was a vassal state of the Ottoman Empire until it was given nominal independence by the Treaty of Kuchuk Kainarji (KOO-chuck kye-NAR-jee). For the entirety of its existence, it was ruled by the Giray (gee-"RYE") dynasty.
ANSWER: **Crimean Khanate** [or **Khanate of Crimea**; prompt on "**Crimea**"]
[10] The annexation of the Crimea occurred during the reign of this Russian tsarina, who inspected the area on a visit arranged by her lover Grigory Potemkin. This empress was considered an "enlightened despot."
ANSWER: **Catherine the Great** [or **Catherine II** of Russia; prompt on "**Catherine**"]
[10] This American officer served in Catherine's navy during the Russo–Turkish War of 1787, in which he feuded with the prince of Nassau-Siegen. He captained the *Bonhomme Richard* (bahn-ahm ree-shard) during the American Revolution.
ANSWER: John Paul **Jones** [accept John **Paul** or Pavel de **Zhoves**]

4. A character in this novel attacks a chandelier with a cane after seeing a vision of his mother rising from the grave. For 10 points each:
[10] Name this novel by James Joyce that ends with Molly Bloom remembering her husband Leopold's proposal, to which she answered "yes I said yes I will yes."
ANSWER: _Ulysses_
[10] This fictional novel retells Ulysses from Molly Bloom's perspective. Its author is a fictional woman who gives frequent lectures about animal rights and literary censorship in a 2003 novel titled for her.
ANSWER: The _**House on Eccles Street**_
[10] _The House on Eccles Street_ was written by Elizabeth Costello, the main character of this author's novels _The Lives of Animals_ and _Elizabeth Costello_.
ANSWER: J. M. **Coetzee** [or John Maxwell **Coetzee**]

5. When Parvati wished to end her loneliness, the Kalpavriksha (kahl-PAHV-rik-shah), a divine object of this type, granted her a daughter, Ashoka·sundari. For 10 points each:
[10] What kind of object is the Kalpavriksha? Hindus consider the bael ("bale"), a variety of this object, sacred to Shiva.
ANSWER: **tree**s [accept divine **tree** or bael **tree**; prompt on "**plant**s" or similar answers]
[10] While meditating under a banyan tree, Lord Rishabha (ree-SHAHB-hah), the first of these holy figures, attained a form of absolute knowledge known as _Kevala jnana_ (keh-VAH-lah NYAH-nah).
ANSWER: **Tirthankara**s (of Jainism) (teer-THAHN-kah-rah) [prompt on "Ford-Makers" or "Teaching Gods" or "Crossing Makers" or "Makers of the River-Crossing"]
[10] This Indian ascetic attained enlightenment while meditating under the Bodhi ("BODE"-hee) Tree, which became a major pilgrimage site in his namesake religion.
ANSWER: **Gautama Buddha** [accept either underlined portion; accept **Siddhartha** Gautama or **Shakyamuni**]

6. A strikingly exaggerated form of this painting technique is called tenebrism. For 10 points each,
[10] Name this technique, characterized by a sharp contrast between lit and unlit areas, that takes its name from the Italian for "light-dark."
ANSWER: _**chiaroscuro**_ (k'yahr-oh-SKOO-roh)
[10] The National Gallery of Ireland holds this Caravaggio painting, which uses _chiaroscuro_ to illustrate a biblical scene in which St. John flees as three soldiers descend on the title man.
ANSWER: The _**Taking of Christ**_ [or _**Presa di Cristo nell'orto**_; or _**Cattura di Cristo**_]
[10] A beam of light follows Christ's finger in _The Calling of Saint Matthew_, which hangs as part of a triptych in this chapel, found inside the Church of San Luigi dei Francese in Rome.
ANSWER: **Contarelli** Chapel [or Capella **Contarelli**]

7. This woman wrote that "mercy brought me from my Pagan land, / taught my benighted soul to understand / that there's a God" in her poem "On Being Brought from Africa to America." For 10 points each:
[10] Name this woman, the first African American female poet to be published. She urged the addressee to "proceed, great chief, with virtue on thy side" in her poem "His Excellency General Washington."
ANSWER: Phillis **Wheatley**
[10] "His Excellency General Washington" ends by listing "a crown," one of these items, and "a throne that shine" as things that "be thine," referring to Washington. In a poem by a different author, the speaker hopes that these items will be built "as the swift seasons roll."
ANSWER: **mansion**s [accept "more stately **mansion**s"]
[10] In this poet's "Primer for Blacks," she numbers among her audience those who proudly screech, "I'VE got the blood of George WASHington in MY veins." Her book _Annie Allen_ earned her a Pulitzer Prize, the first won by a black writer.
ANSWER: Gwendolyn **Brooks** [or Gwendolyn Elizabeth **Brooks**]

8. A year after writing "Letter from a Birmingham Jail," Martin Luther King addressed Rabbi Israel Dresner in a letter written from a jail in this city. For 10 points each:
[10] Name this city where Dresner and other rabbis arrived to support King, leading to the largest mass arrest of rabbis in American history. The owner of this city's Monson Motel poured hydrochloric acid into a swimming pool filled with Southern Christian Leadership Conference activists.
ANSWER: **St. Augustine**, Florida [accept "**Letter from St. Augustine Jail**"]
[10] Rabbis Abraham Heschel and Maurice Davis were photographed walking arm-in-arm with King during the 1965 marches from this Alabama city to Montgomery.
ANSWER: **Selma**
[10] Jews Andrew Goodman and Michael Schwerner were murdered alongside fellow activist James Chaney during this 1964 campaign, in which young activists traveled around Mississippi attempting to register black voters.
ANSWER: **Freedom Summer** [prompt on "**Mississippi Summer** Project"]

9. According to the Gibbs phase rule, these points have zero degrees of freedom. For 10 points each:
[10] Name these points at which solid, liquid, and gas phases coexist. The one for water defines the Kelvin temperature scale.
ANSWER: **triple** point(s)
[10] In general, phases will be at chemical equilibrium if they have the same value for this intensive quantity. Fugacity is defined as the pressure at which an ideal gas has the same value for this quantity as a nonideal gas.
ANSWER: **chemical potential** [prompt on "mu"]
[10] The fugacity coefficient of a nonideal gas can be approximated as the exponential of the integral of this quantity over PV. This quantity, symbolized B, goes to zero at the Boyle temperature, at which point a gas behaves ideally.
ANSWER: **second virial coefficient** [prompt on "virial coefficient" or "second virial"]

10. One of the aims of this school of thought was to better understand the concept of "nothingness," which prompted such books as *Religion and Nothingness*. For 10 points each:
[10] Name this philosophical school, founded by Kitaro Nishida, that attempted to synthesize Eastern and Western philosophy in the aftermath of the Meiji Restoration. It is named for the Japanese city in which it was based.
ANSWER: **Kyoto** School [or **Kyoto**-gakuha]
[10] Nishida's magnum opus was titled as "an inquiry into" this concept, which he defined as the realization of true individuality.
ANSWER: (the) **good** [or **zen**; or **chan**; accept An ***Inquiry into the Good*** or A ***Study of Good*** or ***Zen no kenkyu***; accept word forms such as **goodness**]
[10] Socrates claimed that the form of the "good" allows one to comprehend all other forms in this Platonic dialogue, in which he debates the definition of justice and describes the founding of an ideal city-state.
ANSWER: ***Republic*** [or ***Politeia***]

11. The decomposition of a zero-mean, wide-sense stationary time series into two parts, by the Wold (vohld) representation theorem, motivates the combination of this type of model with the moving average. For 10 points each:
[10] Name this type of model in which the predictors consist of only lagged values in a time series. Its canonical first-order example is "y-sub-t" equals "alpha" times "y-sub-t minus one" plus "epsilon-sub-t," where the last term is a white noise term.
ANSWER: **autoregressive** model [or **self-regressed** model; prompt on "regressive"]
[10] Autocorrelation and this quantity are time-invariant for a wide-sense stationary process. For a process X, this quantity is the expected value "E of X," and its value of "X squared minus its squared value of X" yields the variance.
ANSWER: **mean** [or or **average**; or **first raw moment**; or **first central moment**; or obvious equivalents]
[10] For processes X and Y, this quantity is "E of X times Y" minus "E of X times E of Y." This quantity is divided by the variances of X and Y to give Pearson's correlation coefficient.
ANSWER: **covariance**

12. After eloping with a member of this ethnic group, the missionary Thomas Kendall wrote in a letter that the sublimity of their beliefs almost turned him "from a Christian to a heathen." For 10 points each:
[10] Members of what ethnic group fought each other in a bloody arms race over European muskets in the early 19th century?
ANSWER: **Maori** ("Mowry")
[10] The start of the Musket Wars is commonly attributed to this chief of the Ngapuhi (ng-ah-POO-ee) tribe. This man went with Kendall to England, where he personally received a suit of armor from King George IV.
ANSWER: **Hongi** Hika [prompt on "**Hika**"]
[10] In the ambiguous Treaty of Waitangi, the Maori ceded sovereignty over this modern-day island country to the U.K. The Maori signatories of that treaty were all from this modern-day country's North Island.
ANSWER: **New Zealand** [or **Aotearoa**]

13. Much of Zadie Smith's *On Beauty* pays homage to this other novel, as can be seen in Smith's opening line, "One may as well begin with Jerome's emails to his father." For 10 points each:
[10] Name this novel in which Margaret considers the phrase "only connect" to be "the whole of her sermon." Near the end of this novel, Charles beats Leonard with a sword, causing Leonard to fall into a bookcase and die of a heart attack.
ANSWER: ***Howards End***
[10] *Howards End* was written by this English author, who wrote about Dr. Aziz and Adela Quested in *A Passage to India*.
ANSWER: E. M. **Forster** [or Edward Morgan **Forster**]
[10] The Schlegels meet Leonard at a performance of this musical work, which makes Helen think of goblins walking over the universe. The book calls this piece "the most sublime noise that has ever penetrated into the ear of man."
ANSWER: **Beethoven's Fifth** Symphony [or Ludwig van **Beethoven**'s Symphony no. **5** in C Minor, op. 67; prompt on partial answers]

14. Jean-Pierre Rampal (rahm-PAHL) helped popularize the solo use of this instrument and owned one made by Louis Lot out of 18-karat gold. For 10 points each:
[10] Name this reedless woodwind instrument that has a solo at the beginning of Claude Debussy's *Prelude to the Afternoon of a Faun*.
ANSWER: **flute**(s)
[10] This French composer of a piano piece titled *Scarf Dance* wrote a concertino for the flute and orchestra in D major.
ANSWER: Cécile **Chaminade** (shah-mee-NAHD) [or Cécile Louise Stéphanie **Chaminade**]
[10] This composer wrote his Flute Sonata for Rampal, who premiered it at the Strasbourg Festival. This man wrote his *Concert Champetre* (kon-SAIRT shahm-PAY-truh) for Wanda Landowska (VAHN-da lahn-DOV-skah) and also composed the opera *Dialogue of the Carmelites*.
ANSWER: Francis **Poulenc** [or Francis Jean Marcel **Poulenc**]

15. At a battle that took place on this island, Sreng severed the right hand of the opposing side's king, who was later given a new silver hand by the healer Dian Cecht (dyahn kekt). For 10 points each:
[10] Name this island, the site of the first Battle of Magh Tuireadh (MOY TEE-rah). It was home to the Tuatha Dé Danann (TWA-thah day DAH-nahn), who included Aengus, Brigid, and Éire (AY-reh), from whom this island takes its name.
ANSWER: **Ireland**
[10] At the Second Battle of Magh Tuireadh, this leader of the Tuatha Dé Danann killed Balor (BAH-lor) by destroying his evil eye with a slingshot. Manannán mac Lir (mah-nah-NAHN "mac" leer) gave this Irish sun god his horse Enbarr, which could travel over water.
ANSWER: **Lugh** ("LU" or "loog") [or **Lug**; accept either answer with any of the following epithets: Lámfada or Ildánach or Samildánach or Lonnbéimnech or Macnia or mac Ethlenn or mac Ethnenn or mac Cein]
[10] Lugh is credited with the invention of this chess-like board game, which was known as *gwyddbwyll* (GWITH-bush) in Wales. By defeating Eochaid (yoh-KAHD) at this game, Midir was able to win back his wife, Étaín ("a-teen").
ANSWER: ***fidchell*** (FID-kell) [or ***fidhcheall***; or ***fidceall***; or ***fithchill***]

16. This man was commissioned to write music for a highly repetitive Cubist film directed by Fernand Leger (LAY-zhay). For 10 points each:
[10] Name this American composer who included player pianos and airplane propellers in the score for his *Ballet Mecanique*, which prompted riots at its 1924 Paris debut. Later in life, he collaborated with actress Hedy Lamarr to invent a jamming-resistant torpedo guidance system.
ANSWER: George **Antheil** (ANN-till)
[10] The *Ballet Mecanique* riots paled in comparison to the unrest at this ballet's Paris premier. Attendees were shocked by this Igor Stravinsky ballet's dissonant melodies, meant to evoke the spirit of "Pagan Russia."
ANSWER: The ***Rite of Spring*** [or Le ***Sacre du printemps***]
[10] The Jockey Club disrupted this opera's 1861 Paris debut, angry that the composer had omitted the Act II ballet scene. The title character of this opera is exiled to Rome after he performs an amorous tribute to Venus at the Wartburg (VAHRT-boorg) Song Contest.
ANSWER: ***Tannhäuser*** (TAHN-hoy-zur) [or ***Tannhäuser*** *und der Sängerkrieg auf Wartburg*]

17. A junta (HOON-tah) based in this city fetishized light-skinned women, encouraging many so-called "wonchee girls" to bleach their skin. For 10 points each:
[10] Name this capital city looted in 1999's "Operation No Living Thing." It was the site of a coup led by 25-year-old military officer Valentine Strasser, who ruled as the head of the National Provisional Ruling Council junta.
ANSWER: **Freetown**, Sierra Leone
[10] Freetown was sacked during the Sierra Leone Civil War by the RUF, a militia that was supported by this president of neighboring Liberia. In 2012, he was sentenced to 50 years in prison for crimes against humanity.
ANSWER: Charles **Taylor** [or Charles McArthur Ghankay **Taylor**]
[10] The RUF financed its crimes by mining and illegally trafficking this mineral. This mineral was extracted from the "Big Hole" mine in Kimberley, South Africa, by the De Beers brothers.
ANSWER: **diamond**s [accept blood **diamond**s or conflict **diamond**s or hot **diamond**s or war **diamond**s or red **diamond**s; prompt on "<u>carbon</u>"]

18. This model's boundary conditions require the wavefunction to be zero at the left wall and at the right wall for all energies. For 10 points each:
[10] Name this model that consists of a potential that is zero for some one-dimensional region but infinite everywhere else.
ANSWER: **particle in a box** model [prompt on "infinite potential **well**" or "infinite square **well**"]
[10] In the solution to the particle in a box, what term appears in the denominator of the squared amplitude term and in the denominator of the sine term?
ANSWER: **length** [or **_L_**; accept equivalents such as the **width** of the potential]
[10] For a particle in a one-dimensional lattice, what theorem states that the wavefunction will take the form "*e* to the *i k x*" times a periodic function of the lattice?
ANSWER: **Bloch**'s theorem

19. This novel was adapted into an opera by Sergei Prokofiev. For 10 points each:
[10] Valery Bryusov undertook a detailed study of 16th-century Cologne and occult traditions to create what groundbreaking novel about a love triangle between Renata, Ruprecht, and Madiel, the last of whom is the title esoteric being?
ANSWER: The **_Fiery Angel_** [or **_Ognenny Angel_**]
[10] Along with Zinaida Gippius and her husband Dmitry Merezhkovsky (meh-rezh-KOFF-"ski"), Bryusov is considered a cofounder of this literary movement in Russia. This decadent artistic movement was influenced by the philosophy of Schopenhauer and Nietzsche (NEE-chuh).
ANSWER: **Symbolism** [accept word forms such as **Symbolist**; accept Russian **Symbolism** or similar answers]
[10] A Russian Symbolist novel by Andrei Bely is titled for this city, which was called the "headquarters of Russian decadence" at the high tide of Symbolism. Alexander Pushkin's "The Bronze Horseman" depicts a statue of Peter the Great, who founded this city, coming to life during a flood of the Neva River.
ANSWER: **Saint Petersburg** [accept **_Petersburg_**]

20. Answer the following about the new classical economist Robert Barro ("barrow"), for 10 points each.
[10] Barro created a modification of the "misery index," which was originally calculated by summing unemployment and this quantity. Changes in this quantity can be driven by "cost-push" and "demand-pull" processes.
ANSWER: **inflation** rate [accept cost-push **inflation** or demand-pull **inflation**]
[10] With David Gordon, Barro showed that, when governments choose higher inflation to drive unemployment below its natural level, this assumption implies that workers will anticipate the change, leading to inflationary bias and no real gain in employment. Robert Lucas popularized this assumption.
ANSWER: **rational expectations**
[10] The Barro–Gordon model elaborated upon the policy-ineffectiveness proposition introduced by Neil Wallace and this economist. This famously terse economist shared the 2011 Nobel in Economics with Christopher Sims.
ANSWER: Tom **Sargent** [or Thomas John **Sargent**]

Extra. In a reimagining by Arnold Wesker, this character is a book collector who proposes an absurd contract with his friend Antonio in order to mock the laws of Venice. For 10 points each:
[10] Name this Shakespeare character who is told by Portia that "the quality of mercy is not strain'd." This antagonist of *The Merchant of Venice* demands a pound of flesh as collateral for a loan.
ANSWER: **Shylock**
[10] In this novelist's *Operation Shylock*, a fictional version of the author investigates a man with the same name who is promoting a Jewish diaspora. This American's other novels include *Exit Ghost* and *The Plot Against America*.
ANSWER: Philip **Roth** [or Philip Milton **Roth**]
[10] At the beginning of this man's most recent novel, *Shylock Is My Name*, the wealthy art collector Simon Strulovitch meets the title character in a graveyard. This author won the Booker Prize in 2010 for *The Finkler Question*.
ANSWER: Howard **Jacobson** [or Howard Eric **Jacobson**]