

Tossups

1. *Description acceptable.* The name of this policy originated from a translation of a posthumously-published history by Engelbert Kaempfer (KAYMP-fur). The professor Erik Laxman sent his son Adam on a diplomatic mission to return several lost nationals to the area affected by this policy. Under this policy, subjects received a reward of 500 pieces of silver for discovering a *bateren* (bah-tay-ren), and a reward of 300 pieces of silver for discovering an *iruman* (ee-roo-mahn). The establishment of this policy was preceded by a skirmish in which Nicolaes Couckebacker (koo-keh-bah-ker) bombarded rebels stationed in Hara Castle. This policy increased the regional power of the Matsumae (mah-tsoo-mah-eh) and So clans. In an exception to this policy, several scientific texts were brought in from the island of Dejima, beginning the trend of “Dutch learning.” This policy was ended by the Convention of Kanagawa, which resulted from the gunboat diplomacy of Matthew Perry. For 10 points, identify this policy of the Tokugawa Shogunate that prevented residents from leaving, and foreigners from entering, Japan.

ANSWER: sakoku [or Japanese isolationism; accept any answers mentioning the ban of foreigners, Christians, Europeans, etc. from Japan; accept Nihon or Tokugawa Shogunate in place of “Japan”; do not accept the similar-sounding, but completely wrong, “sengoku”]

2. This text’s “ethnographic imagination” is the subject of a book by Carol Dougherty that argues that the description of the creation of an object in this text is a metaphor for the creation of the text itself. This text’s repetitive use of comparative language that inverts traditional social and sexual roles is dubbed “reverse simile” in an essay by Helene Foley. Peter von der Mühl (MUUL) theorized that a redactor ‘B’ combined works by authors ‘A’ and ‘T’ to produce this text, which Henry Fielding called “the eating-est epic.” Samuel Butler argued that a woman from Sicily authored this text and inserted herself into the story as a princess who encounters a shipwrecked man while washing clothes on the island of Scheria. This text chronologically follows a lost epic called the *Nostoi*, or “returns.” For 10 points, name this ancient Greek poem whose female characters include Nausicaa (naw-SIK-ay-ah) and Penelope.

ANSWER: *The* Odyssey [or Odysseia] [Editor’s note: The object referred to in the first sentence is the raft Odysseus builds on Calypso’s island.]

3. The street grid of a campus in this state is offset from the grid of the surrounding city by 12.25 degrees, inspiring the design of a building which alternates between following the two grids. A museum in this state was the center of a 1990 obscenity trial when it displayed a Robert Mapplethorpe exhibition; that museum moved in 2003 to Zaha Hadid’s first American building. This state is home to the Longaberger Company headquarters, which is shaped like a giant basket. The Wexner Center for the Arts, designed by Peter Eisenman, is in this state. Colorful cars are suspended from the ceiling in the atrium of a museum in this state, which includes a tetrahedral glass tent descending from a white tower which rises from the water of a nearby lake. For 10 points, name this state home to I.M. Pei’s Rock and Roll Hall of Fame.

ANSWER: Ohio

4. A miniature portrait of one of these people washing sausages was rediscovered in 2011. The Royal Yacht HMY *Fubbs* got its name from a nickname for one of these people. One of these people had Nonsuch Palace torn down and sold the parts to pay off gambling debts, and was targeted by a satirical “petition” issued after the Bawdy House Riots. Rumors that one of these people had secretly gotten married were circulated during the Exclusion Crisis. One of these people notoriously started out as an orange-seller. On his deathbed, a man asked his brother to “let not [one of these people] starve.” Lucy Walter and Barbara Palmer were two of these people, whose existence annoyed Catherine of Braganza. For 10 points, name these people, including Nell Gwyn, who had affairs with the king who took power in the Restoration.

ANSWER: mistresses of Charles II of England [accept synonyms for “mistresses”; prompt on actresses until “Fubbs” is read; prompt on partial answer]

5. In fiber optic communication systems, noisy variation in this quantity occurs due to the Gordon-Mollenauer (moh-len-"ow"-er) effect. Bohm and Pines developed an approximation named for this quantity in which single-particle degrees of freedom interact via a short-range screened Coulomb force, leading to the Lindhard formula for the permittivity of an electron gas. One form of this quantity includes a factor of "one plus n plus m " for the T-E-M-sub- n - m mode of a Gaussian beam and is named for Gouy ("gooney"). Another form of this quantity belongs to the holonomy group of a Hermitian line bundle and arises when at least two Hamiltonian parameters of a system undergo adiabatic transport along a closed loop, as shown by Michael Berry. The quotient of angular frequency and wavenumber is this quantity's namesake velocity. For 10 points, name this quantity that may differ for two light waves by up to 360 degrees.

ANSWER: **phase** shift [accept Gordon-Mollenauer **phase** noise or random **phase** approximation or Gouy **phase** or geometric **phase** or Pancharatnam-Berry **phase** or **phase** velocity]

6. This field's "Social Transformation" was chronicled by *American Prospect* co-founder Paul Starr in a book about the loss of its professional sovereignty. In *The Social System*, Talcott Parsons controversially argued that this field was a form of policing for conditionally "sanctioned deviance." It's not education, but its "nemesis" was extensively critiqued by Ivan Illich, who argued that this field often creates more problems than it solves. A work of anthropology on this field describes Neil Ernst and Peggy Philp, who fail to grasp the shamanistic culture of immigrants in Merced, California. *The Spirit Catches You and You Fall Down* is a classic in the anthropology of this field, whose late 18th-century epistemological break originated its namesake "gaze" according to a work by Michel Foucault. For 10 points, name this field of study whose medieval "Canon" was authored by Avicenna, and whose classical pioneers include Hippocrates and Galen.

ANSWER: **medicine** [or synonyms like **medical** science]

7. This playwright was translated and first introduced to the U.S. by an actor who later became a Hollywood star playing Dr. Fu Manchu and Charlie Chan. In one of his plays, the scene abruptly changes from a lawyer's office to a commencement ceremony, in which dancers refuse to crown the lawyer with a laurel wreath. Near the end of that play by this man, the deans of four university faculties argue about whether or not a door should be opened. One of this playwright's protagonists frequently talks about "all the right-thinking" people. The locations of Foulstrand and Fairhaven are contrasted in a play of his that ends with a castle burning and the flower bud on its roof bursting into a giant chrysanthemum. This playwright wrote about Indra's daughter descending to Earth in *A Dream Play*. For 10 points, name this native of Sweden who created Miss Julie.

ANSWER: August **Strindberg**

8. An enlarged blood vessel compressing this structure can be displaced in the Jannetta procedure. A condition affecting this structure can be treated by injecting glycerol into Meckel's cave. HSV-1 usually lies latent in the ganglia of this nerve. Examples of this structure's namesake auto-nomic cephalalgias include cluster headaches. The "suicide disease" is a nickname for this structure's extremely painful neuralgia. Its nucleus receives touch-position and pain-temperature input. Whereas the ophthalmic and maxillary branches of this nerve are purely sensory, its mandibular branch innervates the muscles of biting and chewing. For 10 points, identify this fifth and largest cranial nerve, named for the fact that it has three major branches.

ANSWER: **trigeminal** nerve [or the **fifth** cranial nerve before it is mentioned; accept CN **V** before "fifth" is read]

9. Fritz Kreisler convinced his own concert manager to arrange this musician's wildly successful debut 1928 American tour. This musician frequently performed a transcription of the Christmas song "El Noi de la Mare" (el NOY deh lah MAH-ruh) as an encore piece. Heitor Villa-Lobos (ai-TOR vee-yuh-LOW-bowsh) transformed street music from this man's country into a set of twelve etudes dedicated to this musician, who also commissioned the *Fantasia for a Gentleman*. This musician and his teacher, Miguel Llobet (yoh-BET), worked together to make Isaac Albeniz's music a key part of their instrument's repertoire. Breaking from tradition established by Fernando Sor and Francisco Tarrega, this musician played using a combination of both fingernails and fingertips, and he endorsed the use of nylon rather than catgut strings. For 10 points, name this Spanish musician, the father of classical guitar.

ANSWER: Andrés **Segovia** [or Andrés **Segovia** Torres, 1st Marquis of Salobreña]

10. A character speculates that poor and downtrodden citizens were specifically relocated to the “City Paranoiac” to experience these events. A somber reflection on parents “leaving their children alone in the forest” is occasioned by one of these events that interrupts a pantomime of *Hansel and Gretel*. A hymn from the protagonist’s distant ancestor William is offered just before last of these events occurs, interrupting the closing words: “Now everybody—” The young sex slave Gottfried sacrifices himself by climbing into a device with the serial number 00000 (“zero-zero-zero-zero-zero”) used for one of these events. Roger Mexico determines that the same Poisson distribution is followed by these events and an American lieutenant’s sexual encounters around London. For 10 points, name these destructive attacks seemingly predicted by Tyrone Slothrop in *Gravity’s Rainbow*.

ANSWER: V-2 **rocket** strikes in *Gravity’s Rainbow* [or V-2 **rocket** attacks; or **V-2** strikes; or obvious equivalents]

11. A diplomatic attempt to perform this action was bungled by Romulus Saunders, who spoke “no language but English, and even this...sometimes murder[ed].” This action was justified by analogy to “tearing down [a] burning house” as the only way to prevent flames from consuming one’s home. This action was described as a “law of political gravity” such as affects a ripe fruit by John Quincy Adams. This goal of the “Young America” movement was attempted in an effort that Robert E. Lee and Jefferson Davis refused to lead, which was bankrolled by Mississippi governor John Quitman. This action, which would secure the center of George Bickley’s “Golden Circle,” was attempted in two failed expeditions by Narciso Lopez. Pierre Soulé (SOOL), James Buchanan, and John Mason justified this action as a defense of slavery in the Ostend Manifesto. For 10 points, name this longtime goal of antebellum Democratic expansionists, which would have added to the Union an island south of Florida.

ANSWER: **annexing Cuba** [or **conquering Cuba**; or **buying Cuba**; or making **Cuba part of the United States** or other equivalents; or **Cuban statehood**]

12. A member of this profession is suspected of stealing a queen’s jewels until the queen realizes his jewels are actually of higher quality than hers, after which he is set free and married off to the princess. That member of this profession visits a society whose members walk around naked, but gets kicked out because of his incredulity at the fact that they celebrate at funerals instead of mourning. Following the directions given by a character of this profession, a sultan finds a man who is half human and half stone. That member of this profession tells the story of “The Wazir and the Sage Duban” to a character whom he meets after finding a copper jar with the seal of Solomon on its cap. When offered the choice of his manner of death, a member of this profession tricks the being who made the offer into returning to his bottle. For 10 points, name this profession of a character who encounters a jinni in the second story from the *Arabian Nights*.

ANSWER: **fisherman** [or **angler**; or **piscator**]

13. A pragmatist interpretation of this text was illustrated through the example of a judge who applies precedents to decide on tort law in *A Spirit of Trust*, an analytic re-configuring of this text by Robert Brandom. An attack on physiognomy (fiz-ee-ON-oh-mee) and phrenology in this text quotes Lichtenberg that a man in the physiognomist’s grasp could make himself “incomprehensible” again through a “box on the ear.” This text defines the “Unhappy Consciousness” as an outgrowth of skepticism which must find relief in submission to a priest. A more famous passage in this text describes how forced labor and fear causes a figure to destroy the “alien negative” and make itself a “negative...on its own account,” while his counterpart enjoys only “unessential consciousness.” That passage describes the relationship between “lordship and bondsman.” For 10 points, name this philosophical text tracing the progression of thought to “absolute knowledge” through the process of dialectic, the most famous work of G.W.F. Hegel.

ANSWER: *The* **Phenomenology of Spirit** [or **Phänomenologie des Geistes**]

14. During this event, a group of women tore the clothes off a singer known for going around wearing a men's riding habit and organizing battalions of armed women. During this event, an author wrote the play *The Black Market* to protest slavery, but the text was burned after her death. A society mobilizing working-class women was founded during this event by an actress who kept fighting after being shot through the arm. A Dutch woman named Etta Palm d'Aelders (d'-'ALE'-ders) organized like-minded "Female Friends of Truth" during this event. During this general time period, the "marvelous ones" popularized Greek-style dresses within a youth subculture that included the "incredibles." Early in this time period, thousands of pitchfork-wielding women incensed by the high price of bread dragged cannons to a palace, forcing the royal family to return to the capital city. For 10 points, name this historical event during which women marched on Versailles, and Charlotte Corday assassinated the agitator Jean-Paul Marat. ANSWER: the **French Revolution** [prompt on answers such as the Directory, the Reign of Terror, the Thermidorian Reaction, etc.]

15. This novel's protagonist repeats to himself William Camden's rhyme "Betwixt the stirrup and the ground, mercy I asked, mercy I found." When its protagonist visits his lawyer Prewitt, Prewitt quotes a line from *Doctor Faustus* about how "this is Hell, nor are we out of it." The title of this novel is used as a metaphor for human nature when a character says that it won't change even if you "bite it all the way down." This novel describes a variant of the newspaper competition "Lobby Lud," in which readers have to spot a person named "Kolley Kibber." This novel's villain marries Rose, and its protagonist, Ida Arnold, tries to save Rose from him and get justice for Fred Hale. This novel's villain is the teenage gang leader Pinkie Brown. For 10 points, name this Graham Greene novel set in a seaside resort town in England. ANSWER: **Brighton Rock**

16. Restoration efforts at this location were led by Henry Buckland, who named his daughter after it. A park named after this location is home to the first set of full-scale sculptures of dinosaurs. A disaster at this location destroyed much of the work of television pioneer John Logie Baird, who set up his laboratory here. A rally held at this European location convinced Robert Baden-Powell to form the Girl Guides as a counterpart to the Boy Scouts. This location was given its name by Douglas Jerrold, who used the pseudonym Amelia Mouser for *Punch* magazine, and it was relocated to Sydenham Hill after serving its most famous purpose. Its architect reused his rainproof "ridge-and-furrow" roof design from his greenhouse in Chatsworth. That architect, who worked with Charles Fox on this structure, is Joseph Paxton. For 10 points, name this building that incorporated 900,000 square feet of glass and served as the centerpiece for London's Great Exhibition of 1851. ANSWER: **Crystal Palace**

17. An error-correction scheme that relies on values constructed by using non-singular projective curves defined over one of these constructs is the Goppa code. These structures are often represented using the Conway polynomial, and they are used to recursively factor polynomials in Berlekamp's algorithm. The Diffie-Hellman algorithm relies on the infeasibility of finding f to the x y, where f is a generator of the multiplicative group over one of these structures. These "perfect" structures have a Frobenius endomorphism that is an automorphism. Wedderburn's little theorem states that every division ring is one of these structures, a simple example of which are the residue classes modulo p . An order equal to the power of a prime characterizes, for 10 points, what algebraic structures that are closed under two operations and have a whole number of elements? ANSWER: **finite fields** [prompt on fields]

18. One of these animals appears to be looking up the dress of a passed-out woman in the painting *The Drunken Couple*. Four heads of these animals in different poses make up a study by Frans Snyders, who often included them as the only living animals amongst his scenes of dead animals. A boy holds an eel in his left hand and one of these animals in his right hand in a painting by Judith Leyster. These animals appear in both of the Jan Steen paintings which inspired two of Miró's three *Dutch Interiors*. One of these animals walks over some oysters on the left of Chardin's *The Ray*. Paintings by Jan Steen depict families teaching these animals to read and to dance. For 10 points, name these domestic animals often depicted fighting with dogs in Dutch art. ANSWER: **cats** [accept synonyms like **kitties** or **kittens**]

19. A practitioner of this religion named Richard Baker resigned after it was revealed that he was having an affair with the wife of one of his followers, in one of a rash of sex scandals this religion faced in the 1980s. This religious tradition was popularized in Germany by a Nazi psychotherapist who developed “initiation therapy,” Karlfried Graf Dürckheim. Philip Kapleau founded a center for the study of this tradition in Rochester, New York and wrote a book about its “three pillars.” This tradition was largely popularized in the west by D. T. Suzuki, who drew parallels between it and the thought of Meister Eckhart. Books about the “way” and the “spirit” of this tradition were written by Alan Watts. For 10 points, name this branch of Mahayana Buddhism whose practitioners ponder koans.

ANSWER: **Zen** Buddhism [or **Chan** Buddhism; prompt on **Buddhism**; prompt on **Mahayana** Buddhism]

20. It’s not the aldol reaction, but the fact that this reaction proceeds through a chair-like transition state was elucidated in the Doering-Roth (“during-roth”) experiment. A common route for synthesizing acyl pyr-rol-idines couples the aza-variant of this reaction with a Mannich (“manic”) reaction. Delta-epsilon unsaturated carbonyls are generated after a keto-enol taut-o-mer-iz-ation in the oxy-variant of this reaction. A single peak is observed on an H-NMR spectrum of bullvalene (“bull”-VAY-leen) because of fluxionality (fluk-shon-AL-ity) due to degenerate occurrences of this reaction. The namesake of this reaction also developed a reaction to convert N-oxides of tertiary amines to an alkene using mCPBA (“m-C-P-B-A”) through his namesake elimination. This pericyclic reaction involves the heat-catalyzed isomerization of one-five-di-enes. For 10 points, name this reaction, which like the Claisen rearrangement exemplifies a three-five sigmatropic reaction.

ANSWER: **Cope** rearrangement [do not accept “Cope elimination”]

TB. Emmeline Pankhurst’s daughter Sylvia was invited to live in this city in 1956 after supporting an anticolonial movement in the 1930s and 1940s. In 1894, this city’s founder ordered thousands of eucalyptus trees to be imported from Australia, some of which still stand on its Mount Entoto. Its landmarks include the Tiglachin Monument, which bears depictions of Cuban soldiers, and one that commemorates the victims of a massacre at the Debre Libanos monastery. This city’s name, which means “new flower,” was coined by the empress Taytu Betul. It is one of its country’s two “chartered” cities, along with Dire Dawa (dee-ray dah-wah), and is the headquarters of the African Union. A rezoning plan that would expand this city’s borders is the subject of protests by the oppressed majority Oromo ethnic group. For 10 points, name this city founded by Menelik II, which was the seat of power for Haile Selassie.

ANSWER: **Addis Ababa**

1. The tensor virial theorem states that half the second time derivative of the moment of inertia tensor equals the sum of this scientist's namesake potential energy tensor and two times the kinetic energy tensor. For 10 points each:

[10] Identify this astronomer whose namesake limit is the mass above which a white dwarf is unable to support itself against gravitational collapse via electron degeneracy pressure.

ANSWER: Subrahmanyan **Chandrasekhar**

[10] In astronomy, Chandrasekhar's *H*-function may be used to characterize the solution to this process' namesake equation. In general, this process is the absorption, emission, and scattering of light as it passes through a medium.

ANSWER: **radiative transfer**

[10] Chandrasekhar used two adjustable parameters to find a variational trial wavefunction for this ion. The primary reason we cannot see the Sun's interior is that this ion strongly absorbs light in the range of 0.75 to 4 electron-volts.

ANSWER: **hydride** ion [or **hydrogen anion**; or **H-minus**]

2. This operation was based on the Trout Memo, which may have been written by Ian Fleming. For 10 points each:

[10] Name this British plan that convinced Germany to move troops to Greece and Sardinia. In it, the fake persona of William Martin was assigned to a dead body that was dropped off the Spanish coast with false invasion plans.

ANSWER: Operation **Mincemeat**

[10] Operation Mincemeat cleared the way for an easier Allied invasion of this island in Operation Husky. Within two months, the Allies traveled north from this island to the Italian mainland.

ANSWER: **Sicily** [or **Sicilia**]

[10] This Spanish man, codenamed Garbo by the British, sent hundreds of radio messages misinforming the Germans of the true location of the invasion of Normandy.

ANSWER: Juan **Pujol** (poo-hole) García [prompt on **García**]

3. For 10 points each, name these composers of *battaglia* (bah-TAHL-yah), a genre of 16th-century music depicting combat.

[10] This composer made some of the first uses of pizzicato and tremolo to depict the fight between a Christian knight and a Saracen warrior woman in *The Combat Between Tancred and Clorinda*. He also composed nine books of madrigals and the early opera *L'Orfeo*.

ANSWER: Claudio **Monteverdi** [or Claudio Giovanni Antonio **Monteverdi**]

[10] This English composer included the nine-movement piece "The Battle" and a mock *battaglia* depicting a couples' game called "The Barley Break" in a set of 42 keyboard pieces dedicated to "My Ladye Nevell."

ANSWER: William **Byrd**

[10] This French composer's "La Guerre," depicting the Franco-Venetian rout at Marignano (mah-rin-YAH-no), and "Le Chant des oiseaux" (leh SHAHNT deh wah-ZOHZ), depicting birdsong, are among his 286 chansons, many of them programmatic.

ANSWER: Clement **Janequin** (CLAY-mahnt ZAH-nay-kahn)

4. ANTARES (an-"TARE"-eez) is a device of this type containing twelve 350-meter strings of photomultiplier tubes. For 10 points each:

[10] Name this type of device, the largest of which is a stainless steel tank that holds fifty kilotons of ultra-pure water.

ANSWER: **neutrino detector** [or **neutrino telescope**; or **neutrino observatory**; accept word forms, such as devices for **detecting neutrinos**]

[10] IceCube and Super-Kamiokande ("super"-kah-mee-oh-KAHN-day) are examples of neutrino detectors that are based on this phenomenon, in which a charged particle emits radiation when it passes through a medium faster than the local speed of light.

ANSWER: **Cherenkov** radiation [or **Cerenkov** radiation; or Vavilov-**Cherenkov** radiation]

[10] IceCube is sensitive to this scientist's namesake resonance, in which an electron and antineutrino form a W-minus boson. He is the first namesake of the strongest flavor-changing neutral current suppression mechanism.

ANSWER: Sheldon Lee **Glashow** [accept **Glashow** resonance or **Glashow**-Iliopoulos-Maiani mechanism]

5. Coleridge's work of this type sets forth the oft-quoted definitions of prose as "words in their best order" and poetry as "the *best* words in the best order." For 10 points each:

[10] Name this genre of memoir consisting of assorted comments made by famous people in informal settings.

ANSWER: **table talk**

[10] Perhaps the most famous table-talker in English literature is this lexicographer, the subject of a giant biography by James Boswell.

ANSWER: Samuel **Johnson**

[10] Johann Peter Eckermann recorded this poet's table talk during the last years of his life and published it as *Conversations with [this man]*. This writer's works include the travelogue *Italian Journey*.

ANSWER: Johann Wolfgang von **Goethe**

6. Donald Davidson tried to resolve the apparent inconsistency due to this situation by considering "*prima facie*" (PRY-mah FAY-shee), "all things considered," and "all out" judgments in his paper titled "Is [this situation] Possible?" For 10 points each:

[10] Name this situation denoted by the Greek word *akrasia*. The dialogue *Protagoras* argues that this situation is impossible, since actions are a result of knowledge.

ANSWER: **weakness of will** [or **incontinent** action; or equivalents]

[10] This ancient thinker claimed that *akrasia*, or weakness of the will, is impossible in his dialogue *Protagoras*.

ANSWER: **Plato**

[10] Like Plato, this thinker thought that *akrasia* was impossible. He also introduced universal prescriptivism, the idea that imperatives must contain only universals.

ANSWER: R.M. **Hare** [or Richard Mervyn **Hare**]

7. Answer the following about the photography of Francesca Woodman, for 10 points each.

[10] Many of Woodman's photographs make prominent use of this visual effect. Robert Frank's *The Americans* was criticized for this feature, whose aesthetic quality is referred to as *bokeh*.

ANSWER: **blurriness**

[10] Woodman is best known for her photographs of this type, many of which are nudes. Van Gogh made a painting of this type "with bandaged ear."

ANSWER: **self-portraits**

[10] Woodman took a series of photographs with this name in an abandoned building in Rome. She juts her breasts out in a photograph taken from above entitled "On Being" one of these things.

ANSWER: **angels**

8. A player of this sport says that if you read history books closely enough, you'll find that Bach and Rembrandt had Masai blood, and that Euclid was six-fifths black. For 10 points each:

[10] Name this sport, which *Paris Review* co-founder George Plimpton played to write his account *Paper Lion*. In *The Silent Cry*, Takashi trains the youths in his village in this sport.

ANSWER: American **football** [or gridiron **football**; do not accept "soccer"]

[10] This Jewish-American novelist wrote about a former high school football star nicknamed "the Swede" in his novel *American Pastoral*.

ANSWER: Philip **Roth**

[10] In this insufferably macho autobiographical novel, a high school English teacher who constantly goes on about how much better he is than his students finds release in his obsession with the New York Giants.

ANSWER: A **Fan's Notes** [by Frederick Exley]

9. After Suleiman the Magnificent's destruction of this city, thousands of its residents were taken to a forest in northern Istanbul that still bears its name. For 10 points each:

[10] Name this city where Sinan Pasha ordered the relics of Saint Sava to be publicly burned. This city's fortress includes a tower named after Stefan, who ruled a fifteenth-century despotate from it.

ANSWER: **Belgrade** [or **Beograd**]

[10] This pope ordered every European church to ring their bells at noon in solidarity with the defenders of Belgrade, and allegedly excommunicated Halley's Comet for being a bad omen during that 1456 siege.

ANSWER: **Callixtus III** [or **Alfons** de Borja; prompt on **Callixtus**; prompt on **Borgia**]

[10] During that aforementioned siege, John Hunyadi halted the advances of this Ottoman sultan, who toppled Constantinople three years earlier.

ANSWER: **Mehmed II** [or **Mehmed the Conqueror**; prompt on **Mehmed**]

10. This book argues that mothers in the Alto de Cruzeiro identify which of their children have a *gosto*, "taste," or *jeito* (JAY-toe), "knack," for life. For 10 points each:

[10] Name this Nancy Scheper-Hughes ethnography of impoverished mothers in northeast Brazil who allocate their love and food to children based on their ability to thrive.

ANSWER: **Death Without Weeping**

[10] *Death Without Weeping* cites this critic's idea of the "culture of silence." This Marxist's major work rejects the "banking model" for one in which the pupil is a co-creator of knowledge.

ANSWER: Paulo **Freire** (FRAIR-ee, though "FRAIR" is also acceptable) [or Paulo Reglus Neves **Freire**]

[10] *Death Without Weeping* contrasts Freire's ideas with those of this theorist of colonialism, who advocated violent liberation of oppressed peoples in *The Wretched of the Earth*.

ANSWER: Frantz **Fanon** [or Frantz Omar **Fanon**]

11. A common methodology in developmental psychology makes use of the "preferential" form of this action. For 10 points each:

[10] Name this action which can be tracked by measuring movements called saccades.

ANSWER: **looking** [or obvious equivalents, including things like **eye movement**]

[10] Another developmental psychology methodology, commonly used to investigate phonetic discrimination in language development, looks at the "high amplitude" form of this activity.

ANSWER: **sucking** on a pacifier

[10] In this form of study, the same group of children are followed as they progress through developmental stages over time; it generally refers to a study of the same subject group over a long period of time.

ANSWER: **longitudinal** study

12. This quantity is equal to the electronic potential energy of the hydrogen atom in the ground state. For 10 points each:

[10] Name this unit of atomic energy, used in computational chemistry calculations. It is approximately 27 electron-volts for a hydrogen atom, about twice its ionization energy.

ANSWER: **Hartree** energy

[10] The Hartree energy can also be written as two times this constant times Planck's constant times the speed of light. It's used in a namesake equation to calculate the wavelengths of the hydrogen spectral series.

ANSWER: **Rydberg** constant

[10] The Hartree energy is also equal to two times the electric potential of two elementary charges separated by this unit of distance, symbolized "a" sub zero, which is about 0.5 angstroms.

ANSWER: **Bohr radius**

13. A Jewish movement with this adjective in its name influenced the founding of the Hakoah Vienna football team, and was inspired by a Max Nordau speech. For 10 points each:

[10] Name this adjective, which, when modifying “Christianity,” refers to a movement popular in the late nineteenth century that promoted athleticism as a path to spiritual health.

ANSWER: **muscular** [accept **muscular** Judaism or **Muskel**judentum or **muscular** Christianity]

[10] This organization was founded by George Williams in Geneva on the principles of muscular Christianity. In the U.S., it provides athletic facilities and day care, among other services.

ANSWER: the **YMCA** [or the **Young Men’s Christian Association**; accept the **Y**]

[10] The Geneva chapter of the YMCA was founded by this man, who spearheaded a global network of YMCAs at an 1855 conference in Paris. He vividly described the horrors of modern battle in the book *A Memory of Solferino*.

ANSWER: Jean-Henri **Dunant**

14. A character in this scene melodramatically calls on the gods to ready their thunderbolts and “Dash him to pieces!” should he ever display signs of greed. For 10 points each:

[10] Name this exchange which takes place in a battlefield tent during Act Four of a tragedy. In this scene, back-and-forth accusations of bribery culminate in a man offering his dagger to the other to stab him with.

ANSWER: the **quarrel** between **Brutus** and **Cassius** [or obvious equivalents]

[10] Brutus and Cassius argue on the eve of the Battle of Philippi in this tragedy by Shakespeare.

ANSWER: **Julius Caesar** [or *The Tragedy of Julius Caesar*]

[10] After they reconcile, Brutus urges Cassius to take to the field with an extended metaphor about one of these things “in the affairs of men” which “leads to fortunes” if taken at the right time, or else they will “lose our ventures.”

ANSWER: a **tide**

15. On November 15, 2016, several major cities held gatherings as part of a “National Day of Action” concerning events at this location. For 10 points each:

[10] Name this Indian reservation, the site of ongoing, violently suppressed protests against the construction of the Dakota Access Pipeline.

ANSWER: **Standing Rock** Indian Reservation

[10] During the first prominent Standing Rock protests in 2016, arrest warrants were issued for both Jill Stein and this running mate of hers, who spray-painted messages such as “Decolonize” on bulldozers.

ANSWER: Ajamu **Baraka**

[10] This Sioux activist who protested against both the Keystone XL and Dakota Access Pipelines received a lone Presidential vote from a Hillary Clinton elector from Washington state.

ANSWER: Faith **Spotted Eagle** [prompt on **Eagle**]

16. This poet weighed in on an age-old debate with the lines “Blonde or brunette; must we choose? The god of this world is pleasure,” which conclude his “Gothic Song.” For 10 points each:

[10] Name this French Romantic poet, whose sonnet sequence “The Chimeras” includes a poem that begins: “I am the Dark One, the Widower, the Unconsoled,” titled “El Desdichado” (des-dee-CHAH-doh).

ANSWER: Gerard de **Nerval**

[10] The second line of “El Desdichado,” “Le Prince d’Aquitaine a la tour abolie” (leh PRAHNS d’ah-”key”-TAHN ah lah TOOR ah-boh-LEE), is quoted in the final lines of this five-part poem by T. S. Eliot published in 1922. It ends with the Sanskrit words “Shantih shantih shantih.”

ANSWER: *The* **Waste Land**

[10] At the end of the first quatrain of “El Desdichado,” the speaker describes his “constellated lute” that bears one of these things, specifically the black one “of Melancholy.”

ANSWER: **sun** [or **soleil**]

17. In this year, Claude McKay wrote the poem “If We Must Die” in response to a wave of race riots dubbed “Red Summer”. For 10 points each:

[10] Name this chaotic year in which the Seattle General Strike took place and the Palmer Raids began. Tensions were heightened by the demobilization from World War I, which ended the previous year.

ANSWER: **1919** [prompt on 19]

[10] The wave of anarchist bombings that began in 1919 culminated with this 1920 terrorist attack by Galleanist anarchists, in which dynamite detonated inside a wagon filled with sash weights, killing thirty-eight.

ANSWER: **Wall Street** bombing of 1920

[10] In this 1919 clash between the IWW and the American Legion, veterans participating in an Armistice Day parade rushed an IWW headquarters, later lynching and castrating Wesley Everest.

ANSWER: **Centralia** Massacre

18. A U.N. Special Committee on this region was set up in 1947 following the deportation of people aboard the SS Exodus from here. For 10 points each:

[10] Name this British League of Nations mandate region, in which the military group Irgun was active.

ANSWER: **Palestine** [accept Mandatory/Mandate **Palestine** or UN Special Committee on **Palestine**]

[10] This preacher organized landless peasants who were displaced by Jewish settlers into roving “Black Hand” gangs until he was killed in 1935. A rocket named for him was widely used during the second Intifada.

ANSWER: Izz ad-Din al-**Qassam** (kah-sahm) [or **Qassam** rocket]

[10] The label “The Arab Joseph Trumpeldor” was given to Qassam by Tom Negev, a member of this group of Israeli historians who critically examine the founding of Israel. Their name was coined by one of their members, Benny Morris, in 1988.

ANSWER: **New Historians**

19. This instrument can be played faster by using “doodle-tonguing,” an approach pioneered by Carl Fontana, who played it in the Woody Herman band. For 10 points each:

[10] Name this brass instrument played by Tommy Dorsey, Jack Teagarden, and Glenn Miller. Players of this instrument can control the pitch by means of a slide.

ANSWER: **trombone**

[10] Though the trombone is notoriously difficult to play left-handed, that’s exactly the approach favored by this badass founder of a nine-piece ensemble called the “World of Trombones.” He is nicknamed “Slide” for his prowess at the instrument.

ANSWER: Slide **Hampton** [or Locksley Wellington **Hampton**]

[10] In this jazz standard with lyrics by Irving Mills, the trombone plays in its highest register, above the trumpet and clarinet, an effect the composer reused in his songs “(In My) Solitude” and “Dusk.”

ANSWER: “**Mood Indigo**”

20. Eric Kandel conducted studies on the gill and siphon withdrawal reflex on a member of this genus. For 10 points each:

[10] Name this genus of sea hare whose *californica* species is frequently used in neurobiology studies because of its twenty thousand large, easily identifiable neurons.

ANSWER: **Aplysia** (ah-PLIZ-ee-ah) [accept **Aplysia californica**]

[10] *Aplysia* can display this form of non-associative learning in which repeated presentation of a stimulus decreases the magnitude of the response.

ANSWER: **habituation**

[10] Long term memory in *Aplysia* is followed by an upregulation in the attachment of this post-translational modifier to proteins. The enzyme PARP [“parp”] adds a chain of this group onto damaged DNA to initiate repair, and cholera toxin functions by adding this group to G proteins.

ANSWER: **ADP-ribose** [or **ADP-ribosylation**]