



1. One of this man's advisers apparently stole striped horses from the islands of the Red Sea and castrated one hundred of his daughter's attendants. This emperor claimed that his rise to power was portended by a dream about water flowing from his hands. The Forma Urbis, a massive marble map of Rome, was commissioned by this man. He had the Robin hood-like bandit Bulla Felix killed in the arena and let his son murder the prefect Plautianus. The Praetorian guard was disbanded by this emperor in favor of the Pannonian legions. This husband of Julia Domna won a battle at Isis against Pescennius Niger and crushed the usurper Clodius Albinus at Lugdunum, thus ending a period of civil war begun by the death of Pertinax. For 10 points, name this Roman emperor who was born in Libya and whose sons Geta and Caracalla continued his namesake dynasty.

ANSWER: Lucius **Septimius Severus** [prompt on **Severus**]

252-14-67-13101

2. A member of this group compares them to "demented children" before lamenting "we're the opposite of people!" When a member of this group was hung for stealing a sheep, a crowd pelted him with peanuts. One of these characters quickly reduces a price from ten to eight to seven guilders. This group loses a bet that "the year of my birth doubled is an odd number," leading them to offer up a skirt-wearing boy as payment. In the third act, the appearance of this group from barrels on a ship is heralded by their characteristic drum and flute music. In another play, they are advised to "speak the speech, I pray you, as I have pronounced it to you." For 10 points, name this group of characters from *Rosencrantz and Guildenstern are Dead* who put on *The Murder of Gonzago* in the original *Hamlet*.

ANSWER: the **Tragedians** [or the **Players**; or anything indicating a troupe of **actors**]

252-14-67-13102

3. The death of this artist's wife Louise Vernet colored his painting of a haloed dead woman floating in a river titled *Young Christian Martyr*. He revived the ancient technique of encaustic for a gigantic panorama whose extreme left has Correggio tapping Veronese on the shoulder. That painting by this artist features a crouching nude holding a laurel reef in its center, is known as the *Hemicycle*, and is located in the Ecole des Beaux Arts. A Cocker Spaniel gazes ominously around the corner as two youths cower on a bed with a green canopy in this artist's *The Princes in the Tower*. A man wielding an axe waits to chop off the head of a blindfolded queen in his *The Execution of Lady Jane Grey*. For 10 points, name this French history painter of a realistic version of *Napoleon Crossing the Alps*.

ANSWER: Paul **Delaroche** [or Hippolyte **De La Roche**]

094-14-67-13103

4. This man described his "one true brother, / The tall cadaver, who / Either grew or did not grow" in a poem where he "lay at the edge of a well, / And thought how to bury my smile" titled "The Underground Stream". He describes how the head of fighter pilot Donald Armstrong "rolled over upon ... and fell / Into the inadequate grave" in "The Performance". The poet's invalid mother constantly sings "the thousand variations" of a song from traveling minstrel shows in "Buckdacier's Choice". An excerpt from the *Times* appears above a poem of his where a "neat, lipsticked, stockinged" airline stewardess gets swept out of a plane. Ed is forced to perform oral sex on a mountain man in his novel about a disastrous canoe trip. For 10 points, name this author of "Falling" and *Deliverance*.

ANSWER: James (Lafayette) **Dickey**

094-14-67-13104

5. This man had a dream where he was instructed to "serve the Master rather than the man" after giving his armor to a poor knight. This man especially revered the chapel at Porziuncola. One of his most famous miracles occurred after he saw a man with six wings suspended from a cross while praying. This saint pawned many of his father's possessions to fund the restoration of the church of San Damiano. One group of his followers split into the heretical Spiritualist group. A dream prompted Innocent III to recognize this man's order, and he unsuccessfully tried to convert al-Malik al-Kamil during the Fifth Crusade. This author of the "Canticle of the Sun" pacified the Wolf of Gubbio and inspired a female order known as the Poor Clares. For 10 points, name this founder of the Friars Minor who preached to the birds.

ANSWER: Saint **Francis of Assisi** [or Giovanni **Bernadone**]

094-14-67-13105

6. This island is where one of the few tonal Malayo-Polynesian tongues, Tsat, is spoken. That language is spoken here by an ethnic group descended from a Cham refugee community which lives around this island's city of Sanya. This home of the Utsul is the largest place that was designated a Special Economic Zone and is the site of a January to February fog blanket that routinely floods homes. The country which controls this island claims that its namesake province also includes the Paracel and Spratley archipelagos. The Haidian River runs through the north part of this island, separating its main mass from parts of its capital, Haikou. For 10 points, name this island province found off the south coast of mainland China.

ANSWER: **Hainan**

019-14-67-13106

7. When all values for r are equal, Jackson's rule can be used to perform this task. One algorithm for performing this task starts by labeling all vertices with their distance from the sink node and is a polynomial-time algorithm named for Hu. These algorithms often perform better when the mobility is greater than 0. Tuning parameters were removed from the Brain Fuck type of this algorithm. A probabilistic algorithm of this type is called "lottery". Ingo Molnar developed a "completely fair" one of them. Early versions of these algorithms relied on yield signals and are known as the cooperative type. These algorithms attempt to maximize throughput, reduce latency, and minimize starvation. For 10 points, name these algorithms which load balance an operating system's processes.

ANSWER: **scheduling** algorithms [or **schedulers**]

094-14-67-13107

8. In one of these stories, a man is beaten by his entire family after attempting to punish his daughters for appearing on a magazine cover in bikinis. One of these stories features a scarred, emaciated African stowaway who is found in a warehouse by a policeman. All of these stories include a man who is "in the prime of his life, his fifties." A character in one of these stories is hit by a truck that's lost its brakes seconds after he runs over a little girl, leading him to visit a psychologist who tells him to beat up children. In one of these stories, a character founds Rodent Exterminators, Inc. after rats eat his baby sister in her crib. The plots and character names of these stories become increasingly intertwined as their Argentine-hating creator goes insane. For 10 points, name these dramatic works created by the second title character of a Mario Vargas Llosa novel.

ANSWER: Pedro Camacho's radio **serials** [or **soap operas**; or **radio dramas**; or **scripts**; or anything indicating works of **Pedro** Camacho or works of Pedro **Camacho**; or anything indicating works of the **Scriptwriter**]

252-14-67-13108

9. Paul Boghossian argued that this position is incompatible with privileged self-knowledge, and Tyler Burge defended a version of this thesis by describing a woman named Jane whose community uses "arthritis" to refer to disease of both joints and thighs. Andy Clark and David Chalmers propose an "active" version of it in their work on extended cognition. Proponents of this position argue there is no such thing as narrow content. The causal theory of reference is used to support this position in a thought experiment invoking a substance with the same macroscopic properties as water, but the formula XYZ. That "Twin Earth" scenario was introduced in "The Meaning of Meaning" by Hilary Putnam, who also used this position to refute the brain-in-a-vat thought experiment. For 10 points, name this position which states the meaning of words or mental content is partly determined by the environment.

ANSWER: **externalism** [accept **anti-individualism**; accept word forms]

237-14-67-13109

10. In one of this author's stories, the protagonist dreams that he's misplaced the title object while riding in an extremely slow carriage, then inadvertently steals it upon waking up. One of his recurring characters proclaims "I am lucky, I'm an orphan" after his father dies. This author of "On Account of a Hat" and stories about the aforementioned cantor's son ended one work with the Socialist Feferel being sent into exile. A drive home from Boiberik causes one of his characters to "Strike it Rich". This author's own bankruptcy inspired him to create a speculator named Menachem-Mendl. One of his characters is married to Golde and tries to marry his eldest daughter Tsaytl to the butcher Layzer Wolf. For 10 points, name this author whose Yiddish-language stories of Tevye the Dairyman inspired *Fiddler on the Roof*.

ANSWER: Sholom **Aleichem** [or Sholom **Rabinowitz**]

094-14-67-13110

11. This man's father Grove tried to win an 1871 election by printing his opponent's name on a ballot with special ink that disappeared a few hours after printing. This politician sponsored a 1934 bill banning nations in default from marketing bonds in the US. As DA he went after Eugene Schmitz and Abraham Reuf. The Lincoln-Roosevelt League propelled him to governor where he endorsed the xenophobic Alien Land Law of 1913. With Phil Swing, this man sponsored the 1928 Boulder Canyon Project Act. He literally followed Woodrow Wilson to oppose the president's whistle stop tour to ratify the Treaty of Versailles, and he'd later refuse to endorse the UN charter. For 10 points, name this isolationist California politician who served as Teddy Roosevelt's running mate on the Bull Moose Ticket in 1912.

ANSWER: Hiram **Johnson**

094-14-67-13111

12. The allegretto vivace scherzo of one of this man's symphonies opens with a fugato in which first violins, then second violins, violas, and celli in turn enter with the leggiero theme. He used a nearly opposite order of entry in the fugato development of the adagio second movement of another symphony. This composer's aria "De mon amie" was based on that movement, and the symphony borrows heavily from Charles Gounod's *Symphony in D*. French horns imitate church bells in the "Carillon" movement of one suite by this composer of the *Roma Symphony*. The prelude to that suite and farandole from a later suite both quote the "March of the Kings," and both came from incidental music for an Alphonse Daudet play. For 10 points, name this French composer who wrote a *Symphony in C* at seventeen, as well as *L'Arlesienne* and the operas *The Pearl Fishers* and *Carmen*.

ANSWER: Georges **Bizet** [or Alexandre César Léopold **Bizet**]

237-14-67-13112

13. One character in this film notes that one week, it had been so abnormally cold that the lakes froze over. One sequence in this film repeatedly cuts between a woman standing at a bar, and the same woman holding a broken-heeled shoe in a bright room. A man in this film hands that woman a photograph of herself, and she later finds an entire drawer of those photographs. That man and woman debate about a classical statue of Charles III and his wife taking an oath before the Diet. One character in this film claims he always wins a game that involves taking away objects arranged in rows of seven, five, three, and one. This film's screenplay is by Alain Robbe-Grillet. For 10 points, name this French New Wave film by Alain Resnais, in which a man tries to convince a woman that the previous summer, she had agreed to run away with him.

ANSWER: *Last Year at Marienbad* [or *Last Year in Marienbad*; or *L'Année dernière à Marienbad*]

237-14-67-13113

14. This conflict sparked leaders on the losing side to form the Syndicate to work out the impending crisis of political succession. Following this conflict, thousands of citizens were interred in Deoli. During this war in which the Forward Policy was used, the commander B. M. Kaul developed pleurisy and had to leave the front. This war violated the Five Principles of Peaceful Coexistence signed 8 years earlier. Early operations in this war included an attack on Namka Chu and the seizing of Tawang, and it resulted in an exchange of high-altitude territory across the McMahon Line. Tensions between the two adversaries in this conflict escalated a few years before when one agreed to shelter the Dalai Lama. For 10 points, name this 1962 border conflict between the world's two most populous countries.

ANSWER: Sino-Indian War of 1962 [or Sino-Indian Border Conflict or Chinese-Indian War of 1962]

094-14-67-13114

15. The CLEO detector at Cornell studies the decay of tauons into a neutrino and six of these. The OZI rule explains why the phi meson does not decay into this particle. Rho decay produces two of these particles. The non-charged variety of these particles can decay into a positron, electron and photon in a process known as Dalitz decay, although that decay is statistically less probable than generating two gamma ray photons. The charged variety of this particle consists of an up and anti-down quark. The Yukawa interaction describes the behaviour of nucleons and these. For 10 points, name this spin-zero particle, the lightest meson.

ANSWER: pion [or pi meson; prompt on "meson"]

245-14-67-13115

16. Margaret Fuller declared that this man “well deserved it” if he was killed by his people, and he was known as King Wobble after a quick retreat. This ruler promulgated a namesake constitution that lasted for one hundred years and declared Roman Catholicism as the state religion. This man went into self-exile in Portugal after abdicating the throne. Forces loyal to this man lost the Battles of Custoza and Novara. Both of those losses were to armies led by Joseph Radetsky who was fighting for Franz Joseph I. Although opponent of Austrian rule, this king fought with liberals like Giuseppe Mazzini and Camillo Cavour. For ten points, name this member of the house of Savoy, and King of Piedmont-Sardinia, who abdicated in favor of his son Victor Emmanuel II in 1849.

ANSWER: Charles Albert I of Sardinia

250-14-67-13116

17. These drugs are contraindicated during the third trimester of pregnancy due to premature closure of the ductus arteriosus. These drugs, which include sulindac, inhibit NF-kappa-B and down-regulate the expression of L-selectins. One member of this family that can be given intravenously is ketorolac. After *H.pylori* infection, these drugs are the second most common cause of gastric ulcer formation. This class of medication acts by non-selectively inhibiting COX-1 and COX-2. Indomethacin is commonly given to treat pericarditis, while naproxen or diclofenac can be used for their anti-inflammatory or analgesic effects. For 10 points, name this class of painkiller whose most famous member is ibuprofen, or Advil.

ANSWER: Non-Steroidal-Anti-Inflammatory-Drugs [or NSAIDs; prompt on "analgesic"; prompt on "painkillers"; prompt on "anti-inflammatory"; do not prompt on "salicylates" as none of these clues specifically refer to aspirin]

245-14-67-13117

18. The first game in this series was ported to the ZX Spectrum with the whimsical title *Eric and the Floaters*. Game Boy entries in this series include a game where you search for the Ring of Wishes, a 1994 *Wario* cross-over, and a 1990 release titled *Atomic Punk*. The protagonists of this series can ride kangaroo-like Louies and frequently do battle with the boss Bagura. Dead players can fling projectiles from the sidelines in a much-loved 10-player Saturn iteration. Entries in this series titled "Hero" and "Second Attack" were released for the N64. Power-ups in this series include skates, which increase your speed, and fire, which extends the blast radius of your key weapon. For 10 points, name this Hudson Soft series where the namesake dudes blow stuff up.

ANSWER: Bomberman [or Dynablaster]

094-14-67-13118

19. Henry Friendly listed the basic rights guaranteed by one version of this principle in his article "Some Kind of Hearing." Justice Harlan's defense of the right to privacy under this principle in *Griswold v. Connecticut* was an important precedent for the application of this principle in *Roe v. Wade*. In *Lochner v. New York*, the Supreme Court concluded that one version of this principle implicitly entails liberty of contract. *Dred Scott v. Sanford* was one of the first cases to apply its substantive version, which restricts the government's ability to infringe upon certain fundamental rights. Without fulfilling this requirement, state actors cannot deprive a person of life, liberty, or property, according to clauses in both the Fifth and Fourteenth Amendments. For 10 points, name this legal requirement that people will receive fair treatment under the law.

ANSWER: due process [accept Due Process Clause; accept substantive due process or procedural due process]

237-14-67-13119

20. Manfred Sakel put his patients into comas by giving them large amounts of this drug in an attempt to cure their schizophrenia. Bertram Collip was the biochemist responsible for purifying this drug, which was first given to Leonard Thompson. Hans Christian Hagedorn made preparations of this drug more stable by combining it with protamine. This was the first protein to be completely crystallized, which won Frederick Sanger the Nobel Prize in 1959. This drug's effects were first discovered at the University of Toronto by Charles Best and Frederick Banting, who injected islets into the abdomen of dogs who had their pancreas removed. For 10 points, name this drug now used worldwide to treat diabetes.

ANSWER: insulin

245-14-67-13120



1. Identify the following about some Victorian epidemiologists, for 10 points each.

[10] Epidemiologist William Farr's greatest contribution was applying this discipline to the field of medical research. Farr wrote a chapter on the "vital" form of this discipline in a John Ramsay McCulloch book that applied this discipline to the entire British Empire.

ANSWER: **statistics** [or **stats**; prompt on "math"; accept word forms]

[10] This physician traced the spread of the 1853-1855 cholera outbreak in London to use of the Broad Street pump.

ANSWER: John **Snow**

[10] Snow administered chloroform to Queen Victoria when she gave birth to a son of this name. A prince of this name from Anhalt-Dessau popularized the modern bayonet before his death in 1747, and a Holy Roman Emperor of this name issued the 1791 Declaration of Pillnitz.

ANSWER: **Leopold**

094-14-67-13201

2. This composer's enemies argued that the only reason his music was regularly performed during his lifetime was due to his position as music critic for the *Herald Tribune*. For 10 points each:

[10] Identify this American composer of the score for *The Plow That Broke the Plains* and incidental music for Orson Welles' *Voodoo Macbeth*.

ANSWER: Virgil **Thomson**

[10] Thomson collaborated with this author on *Four Saints in Three Acts* and *The Mother of Us All*. She ran a prominent Paris salon and applied the ideas of Cubism to literature in her book *Tender Buttons*.

ANSWER: Gertrude **Stein**

[10] Thomson studied under this French composer, who won the second prize Prix de Rome for the cantata *La Sirène*. She taught Elliott Carter and Aaron Copland as a teacher at the American Conservatory at Fontainebleau, and played organ at the premiere of Copland's *Symphony for Organ and Orchestra*.

ANSWER: Nadia **Boulanger**

094-14-67-13202

3. In March 2014, three members of Congress wrote a letter to this company asking why one of its best selling drugs costs so much. For 10 points each:

[10] Identify this biotech company which produces Sovaldi, a drug whose full treatment costs around eighty thousand dollars.

ANSWER: **Gilead** Sciences

[10] With Sovaldi, Gilead has developed one of the first effective treatments for this disease, which causes liver problems for about 3.2 million Americans. Unlike two similarly named diseases, there is no vaccine for it.

ANSWER: **Hepatitis-C** [prompt on partial answer]

[10] One of the Congressmen who grilled Gilead on its drug prices was this California representative and net neutrality advocate who announced he was stepped down in 2014 after almost 40 years in office. His stint as chairman of the House Committee on Energy and Commerce attracted criticism from Darrell Issa for close ties to Solyndra.

ANSWER: Henry (Arnold) **Waxman**

094-14-67-13203

4. This man co-names an algorithm with John Hopcroft that finds the maximal set of edges such that no two edges share an endpoint from an input bipartite graph. For 10 points each:

[10] Identify this computer scientist, the alphabetically first namesake of an $O(n+m)$ string searching algorithm that employs hashing to detect matching substrings.

ANSWER: Richard **Karp**

[10] Karp's paper "Reducibility Among Combinatorial Problems" outlined problems like Exact Cover and Set Packing that belong to this computational complexity class that are verifiable in polynomial time. The traveling salesman problem is also in this complexity class.

ANSWER: **NP** [since all of the algorithms are also **NP-Complete** and **NP-Hard**, accept those answers]

[10] Karp also came up with an algorithm to find the minimum mean-weight of one of these features in a graph. Bob Floyd's algorithm for detecting these things is sometimes called the tortoise and the hare algorithm.

ANSWER: **cycles**

094-14-67-13204

5. In this man's debut work, he described how he was nursed back to health by Esther and went on to attend Oberlin College in the United States. For 10 points each:

[10] Identify this Sierra Leone-born author of the memoir *A Long Way Gone*.

ANSWER: Ishmael **Beah**

[10] *A Long Way Gone* describes Beah's time as one of these people, who brandished an AK-47 and was given lots of drugs to keep him in line. Nigerian author Uzodinma Iweala's debut novel *Beasts of No Nation* was narrated by one of these people.

ANSWER: child **soldier** [accept equivalents like being in the **Army**]

[10] In this most recent Ishmael Beah novel, the protagonists must come to grips with the horrors of "Operation No Living Thing". It opens with Mama Kadie returning to the village of Imperi following seven years spent in a refugee camp.

ANSWER: **Radiance of Tomorrow**

094-14-67-13205

6. The 61st issue of this comic was re-penciled by Marshall Rogers after Todd MacFarlane's terrible artwork was rejected. For 10 points each:

[10] Name this 1982 to 1994 Marvel series, widely regarded as rising above its cartoon basis in storylines such as "Snake-Eyes: The Origin" and "Cobra Civil War."

ANSWER: **G.I. Joe: A Real American Hero**

[10] The success of the *G.I. Joe* comic was mostly due to the military background of this Vietnam veteran, its writer. This mid-90s writer of *Wolverine* also created Bucky O'Hare.

ANSWER: Larry **Hama**

[10] Hama also wrote twelve issues for two series about this character, a hero of the Hyborian age who battles the schemes of the wizard Thoth-Amon.

ANSWER: **Conan** the Barbarian

019-14-67-13206

7. One members of this organization wrote *Fi Zilal al-Quran* and was executed in 1966 on charges of attempting to assassinate the president. For 10 points each:

[10] Identify this organization, whose members included Sayyid Qutb. It was founded by Hasan al-Banna.

ANSWER: **Muslim Brotherhood** [or **al-Ikhwan al-Muslimun**]

[10] This ruler of Egypt executed Sayyid Qutb. He also nationalized the Suez Canal and lends his name to a lake formed by Aswan High Dam.

ANSWER: Gamal Abdel **Nasser** (Hussein)

[10] This plot against Nasser was revealed when one of the pants of one its participants caught on fire after a bomb he was carrying accidentally exploded outside of a movie theatre. In this false flag operation, Israeli-trained Egyptian Jews planned to bomb sites in Cairo and Alexandria.

ANSWER: **Lavon** Affair [or Operation **Susannah**; prompt on "The Unfortunate Affair" or "The Bad Business"]

094-14-67-13207

8. The Donation of Alexandria acknowledged this man as his mother's successor and also declared him as Julius Caesar's son and heir. For 10 points each:

[10] Name this last pharaoh of Egypt.

ANSWER: **Cesarion** [accept **Ptolemy XV**; accept **Ptolemy Caesar**; prompt on Ptolemy]

[10] Cesarion was the last pharaoh of Egypt because this dude came and wrecked his shit. This guy was *actually* Caesar's heir and adopted son and this guy's naval commander Marcus Agrippa won the Battle of Actium.

ANSWER: **Augustus** Caesar [or Gaius **Octavian**]

[10] Much like Augustus, this earlier guy took over Egypt militarily. This king captured Psamtik III after the Battle of Pelusium ending the Saite Period.

ANSWER: **Cambyses II**

250-14-67-13208

9. This poem claims that "I have no need for tongue" and that "my heart keeps" the title mode. For 10 points each:

[10] Name this poem, which titles a collection including "The Bat," "Night Journey," and "Mid-Country Blow."

ANSWER: "**Open House**"

[10] *Open House* was the first collection from this author of "My Papa's Waltz" and "Elegy for Jane."

ANSWER: Theodore **Roethke**

[10] At the end of "Elegy for Jane," the speaker proclaims that he has "no rights in the matter" because he is neither of these two types of people.

ANSWER: "Neither **father** nor **lover**"

019-14-67-13209

10. Answer some questions about circuits. For 10 points each:

[10] Name this theorem which states that a series of voltage sources and resistors can be simplified to one voltage source and one resistor.

ANSWER: **Thevenin**'s theorem

[10] The AC version of Thevenin's theorem can also be stated in terms of a source for this quantity rather than resistance. This quantity is equal to the resistance plus the reactance.

ANSWER: **impedance**

[10] Impedance matching can be used to achieve maximum power transfer. In order to do so, the load impedance and source impedance must have this relation to each other.

ANSWER: **complex conjugate**

245-14-67-13210

11. This man took over Alexander Pushkin's literary journal *Sovremennik* and turned it towards radicalism. For 10 points each:

[10] Name this author of *The Anthropological Principle in Philosophy* who co-founded the Narodniks.

ANSWER: Nikolay **Chernyshevsky**

[10] This main novel of Chernyshevsky mostly follows Vera Pavlovna's attempts to escape an arranged marriage. It directly inspired the formation of Land and Liberty, and Lenin cribbed its title for a pamphlet.

ANSWER: **What Is to Be Done?**

[10] This secondary character in *What Is to Be Done* became more emblematic of the novel due to his philosophical radicalism. His materialist ideals inspired Dostoyevsky to mock the book in *Notes From Underground*.

ANSWER: **Rakhmetov**

019-14-67-13211

12. Gustave Courbet was sentenced to a six-month prison term and forced to pay a fine of over three-hundred thousand francs for his role in this action. For 10 points each:

[10] Identify this action which took place on May 16th, 1871 as a band played the *Marseillaise*. As Marx put it, "a symbol of chauvinism and mutual hatred among the nations" was destroyed through this action.

ANSWER: the destruction of the Place **Vendome Column** [accept equivalents]

[10] The Vendome Column was destroyed during the rule of this government. Courbet was president of this government's Art Commission, and over twenty thousand people were killed as it was overthrown in the Bloody Week.

ANSWER: Paris **Commune**

[10] The cover of an issue of this newspaper showed a man with a pickaxe on a ladder about to take a whack at the Vendome Column. This radical newspaper first appeared during the French Revolution when it was edited by Hebert, and it takes its title from a theatre character who frequently appeared with Jean Bart and Les Poissardes.

ANSWER: *Le* **Père Duchesne** [or **Old Man Duchesne** or **Father Duchesne**]

094-14-67-13212

13. These ligands induce dimerization of their receptors via serine/threonine kinase activity, causing the recruitment of Smad proteins. For 10 points each:

[10] Name this superfamily of dimeric proteins which include its namesake alongside the activins and BMPs. They serve roles in both developmental pattern formation and tissue repair.

ANSWER: **transforming growth factor beta** superfamily [or **TGF-Beta**]

[10] The Smad family is named for the Sma protein, first identified in *C. elegans*, and the Mad protein, which was first identified in this other model organism with a lifespan of 30 days used by Thomas Hunt Morgan for genetic analysis.

ANSWER: **Drosophila melanogaster** [or **fruit fly**]

[10] During development, some members of the TGF-beta superfamily serve this role. These are diffusible proteins that determine tissue development and polarity by forming a concentration gradient.

ANSWER: **morphogen**

245-14-67-13213

14. This short film includes close-ups of a woman smiling and includes many shots of a ball swinging back and forth. For 10 points each:

[10] Name this short film created by Fernand Leger and Dudley Murphy in which the title event is depicted through quick cuts of various devices.

ANSWER: **Ballet Mécanique** [accept **Mechanical Ballet**]

[10] Man Ray, who helped out on the making of *Ballet Mécanique* was a member of the Cinema Pur movement along with this French dude, the director of *Entr'acte*, *Le Million* and *A nous la Liberte*.

ANSWER: Rene **Clair**

[10] Clair's *Entr'acte* is usually considered an example of this film movement. This movement was represented in painting by dudes like Rene Magritte and Salvador Dali.

ANSWER: **Surrealism** [accept word forms like **Surrealist**]

250-14-67-13214

15. This philosopher rejected most claims of cultural group rights in *The Ethics of Identity*, which affirmed the need for a rooted cosmopolitanism. For 10 points each:

[10] Name this Anglo-Ghanaian philosopher who used such stories as the Asante men's embrace of circumcision to illustrate how people can live together despite moral disagreement in *Cosmopolitanism*.

ANSWER: Kwame Anthony **Appiah**

[10] In *In My Father's House*, Appiah argues that this thinker's pan-Africanism is based on a European conception of race. This editor of *The Crisis* thought the African-American community would be uplifted by an elite few he called the "talented tenth."

ANSWER: William Edward Burghardt **du Bois**

[10] In "Of Our Spiritual Strivings," the first chapter of *The Souls of Black Folk*, Du Bois coined this term for the psychological difficulty of reconciling the educated African-American's African ancestry and European education.

ANSWER: **double consciousness**

237-14-67-13215

16. Linda Zagzebski argued that this approach is distinguished by a "direction of analysis" thesis, according to which "the property of rightness is something that emerges from the inner traits of persons." For 10 points each:

[10] Name this normative approach to knowledge, introduced in Ernest Sosa's "The Raft and the Pyramid," which is grounded on characteristics that promote intellectual flourishing.

ANSWER: **virtue epistemology**

[10] Talk of virtues in philosophy was largely revived by "Modern Moral Philosophy" by this British Catholic disciple of Wittgenstein. Her book *Intention* uses a man with a shopping list to illustrate the relation between beliefs and desires.

ANSWER: Gertrude Elizabeth Margaret **Anscombe**

[10] Virtue ethics also drew inspiration from this major ethical work of Aristotle, which describes the role of qualities such as *arete*, or ethical virtue, in achieving *eudaimonia*, the highest end of mankind.

ANSWER: **Nicomachean Ethics**

237-14-67-13216

17. This denomination includes the House for All Sinners and Saints founded by emerging church pastor Nadia Bolz-Weber, and in 2013, Guy Erwin was chosen as its first openly gay bishop. For 10 points each: [10] Name this largest Lutheran denomination in the United States. This church is less conservative than both the Missouri Synod and the Wisconsin Synod.

ANSWER: **Evangelical Lutheran Church** in America [or **ELCA**]

[10] The Evangelical Lutheran Church accepts the unaltered version of this document, which was written by Philipp Melanchthon after Martin Luther was banned from accepting Charles V's invitation. Its 28 articles include salvation by faith alone.

ANSWER: **Augsburg Confession** [or **Confessio Augustana**]

[10] Of course, the Evangelical Lutheran Church accepts the sacramental union, the Lutheran version of this doctrine which states that Jesus Christ is actually in sacramental bread and wine, not just metaphorically.

ANSWER: **Real Presence** of Christ in the Eucharist

237-14-67-13217

18. This character spits on Little Billee shortly after causing a woman in a park to fail to recognize her old friends. For 10 points each:

[10] Name this ugly Jewish musician who plays the piano alongside his protégé Trilby O'Ferrall.

ANSWER: **Svengali**

[10] Svengali and Trilby were created by this author of *The Martian* and *Peter Ibbestson*, perhaps better known as the grandfather of the author of *Rebecca*.

ANSWER: George **du Maurier**

[10] This other novel by Daphne du Maurier follows Philip Ashley, who comes to believe that the title character killed Ambrose due to her affair with Signor Rainaldi and arranges a revenge murder of his own.

ANSWER: **My Cousin Rachel**

019-14-67-13218

19. Identify the following about the life of Elizabeth Patterson, for 10 points each.

[10] Patterson gained fame when she married into, and then was abandoned by, a member of this family. A member of this family named Charles served as both Attorney General and Secretary of the Navy in the cabinet of Theodore Roosevelt.

ANSWER: **Bonaparte**

[10] Patterson was a debutante from this American city. This city names a type of clipper used for shipping slaves on the Middle Passage, and its harbor was guarded by Fort McHenry in the War of 1812.

ANSWER: **Baltimore**

[10] Jerome Bonaparte's second marriage was to the daughter of a king of this region. Duke Eberhard Louis of this region constructed the massive Ludwigsburg Palace.

ANSWER: Kingdom of **Wurttemberg** [or Duchy of **Wurttemberg**]

094-14-67-13219

20. Identify the following about words in art, for 10 points each.

[10] This artist attacked patriarchy in her photostat of Michelangelo's *The Creation of Adam* which added the text, "You invest in the divinity of the masterpiece". Another of her works plasters the words "Your body is a battleground" over the image of a woman's face.

ANSWER: Barbara **Kruger**

[10] Kruger is a fan of the Ultra Condensed variety of Helvetica, a ubiquitous font originally developed by Max Miedinger in this country. Henry Fuseli was born in this landlocked nation.

ANSWER: **Switzerland**

[10] Ed Ruscha [ru-shay], who made paintings of words like "OOF", painted an art museum in this city on fire. Another art museum in this city exhibits James Ensor's *Christ's Entry Into Brussels*.

ANSWER: **Los Angeles** [or **LA**]

094-14-67-13220

21. Nine instruments are played during services in this religion and the Kagura Service is also performed during services:

[10] Name this religion that also teaches that people must perform daily selflessness called Hinokishin.

ANSWER: **Tenrikyo**

[10] This is the central tenant of Tenrikyo. According to the Tenrikyo website, the key to realizing this is "gratitude to God the Parent" and this thing is normally seen as an elevated state of mind.

ANSWER: **Joyous Life** [accept **yoki yusan**; accept **yoki gurashi**]

[10] Tenrikyo was founded in this nation. Most of the people in this nation follow a religion that worships Kami.

ANSWER: **Japan** [accept **Nippon**; accept **Nihon**]

250-14-67-13221