



1. A revolt led by a man nicknamed Tiradentes ensued after the *derrama* tax was levied on this resource. A *faiscador* was someone who worked in the industry of this resource and *moncoes* were those who worked in this resource's industry in certain parts of the year. Workers of this resource founded the city of Cuibaba and fought the War of the *Emboabas* against the *Paulistas*. This resource's discovery in Minas Gerais led to the founding of the city of Belo Horizonte, and led to the change of the capital from Salvador to Rio de Janeiro. For ten points, name this resource that provided much of Brazil's wealth in the 18th century, and was believed by many conquistadors to have made up the contents of the city of El Dorado.

ANSWER: **gold**

250-14-67-07101

2. The ratio of temperatures for which two different substances have the same value for this quantity is linear according to Duhring's rule. This value is multiplied by a fugacity coefficient and the Poynting correction factor to obtain the standard-state fugacity for an ideal system. Given the acentric factor, critical pressure and temperature, the Lee-Kesler method can approximate this quantity. At low temperatures, the Arden-Buck equation is more accurate than the Goff-Gratch equation for calculating this quantity. When this quantity equals the atmospheric pressure, the boiling point of a solution has been reached. For a mixture, a component's value for this quantity equals its value as a pure substance multiplied by its mole fraction by Raoult's law. For 10 points, name this quantity that is the force exerted by a gas against its liquid when the two are in dynamic equilibrium.

ANSWER: **vapor pressure**

245-14-67-07102

3. This person perpetrated a hoax about the fictional artillery officer Reflipe W. Thunez. This man sent Ralph Paine and "Dynamite Johnny" O'Brien to deliver a jeweled sword to the "world's greatest living soldier," and he sponsored Karl Decker's expedition to break Evangelina Cisneros out of prison. This man told his employee James Creelman to sink a steamer in the Suez canal in order to block Manuel de la Camara's fleet. Richard Harding Davis broke with this man after he claimed that soldiers strip-searched a woman aboard the *Olivette*. He publicized the De Lome letter and said "you furnish the pictures and I'll furnish the war" to Frederic Remington. For 10 points, name this rival of Joseph Pulitzer whose *New York Journal* helped spark the Spanish-American war.

ANSWER: William Randolph **Hearst**

252-14-67-07103

4. The Barkhausen effect can be modeled by a distribution named for this letter. This letter equals the velocity of a moving plate divided by the distance between that plate and a stationary one. That equation uses this letter to represent the shear rate. This letter denotes a set of anticommutating matrices that are related by the Clifford algebra. Those matrices can form the function of spinors in the Dirac equation. The ratio of heat capacity at constant pressure to that at constant volume is the adiabatic index denoted by this letter. Another quantity represented by this letter is equal to the derivative of time with respect to proper time. Time slows down in the Twin Paradox by that factor, which is named for Lorentz. For 10 points, name this letter used to denote radiation with higher frequency than x-rays.

ANSWER: **gamma**

245-14-67-07104

5. This man's son is killed with a chain shortly after wounding Cairbre. This man first met his father during a fight over a pig, or was found naked at age seven on Benbulbin. This hero allegedly encountered Saint Patrick shortly after his death in a roadbuilding accident. This man is so named because the druid Fer Doirich turned his mother Sabdh into a deer. This man became the father of "the flower of women" Plur na mBan after travelling to Tir na Nog with his wife, Niamh of the golden hair. This man ages three hundred years after falling off the magical horse Embarr. For 10 points, name this son of Finn mac Cumhail who is the narrator of the Fenian Cycle and was the attributed author of several hoax poems by James MacPherson.

ANSWER: **Osian**

019-14-67-07105

6. A short canon between the celli and violas at the outset of this piece's second movement is followed by a similar canon between altos and tenors. In the third movement of this piece, the horns and trumpets first enter when the chorus begins singing "Hosanna in excelsis." The sixth movement begins with celli and basses playing pizzicato on the first, second, and fourth beats of each bar, followed by the entrance of a baritone soloist. The harps and violas play E flat major arpeggi at the outset of a movement in which the sopranos alternate in three- and four-bar phrases with the male voices, accompanied by a dreamy violin soli. This piece includes an "In Paradisum" to replace the conventional "Dies Irae," and its "Pie Jesu" is a soprano solo. For 10 points, name this mostly Latin setting of the Mass for the Dead for orchestra, chorus, and organ by a late 19th century French composer.

ANSWER: Gabriel Urbain **Fauré's Requiem** in D minor

237-14-67-07106

7. This actress literally crawled onto stage in a role playing Christina Olson from Andrew Wyeth's *Christina's World*. She played a younger sister to Sarah Jessica Parker's uptight Meredith Morton in the forgettable 2005 comedy *The Family Stone* and beat out Alicia Silverstone to land her breakout role in a series created by Ed Zwick and Marshall Herskovitz of *Thirtysomething* fame. In a later role, she states "if people didn't eat them every day, [cattle] would just be funny-looking animals in zoos" before Dr. Carlock suggests that she ought to design slaughterhouses. Her character worked at a glove counter in Steve Martin's *Shopgirl*. She starred opposite Leonardo DiCaprio in a 1996 Baz Luhrmann film and won an Emmy for playing Temple Grandin. For 10 points, name this star of *My So Called Life* and *Homeland*.

ANSWER: Claire (Catherine) **Danes**

094-14-67-07107

8. Prominent members of this ethnic group were killed in the Slaughter of the Dukes. That event led to an uprising of these people in which The Proclamation was issued. A king of this people built the Monastery of the Holy Archangels and issued a namesake law code that banned simony. That king of this ethnic group, along with his father, used his elite unit, the Alemannic Guard, to win the Battle of Velbazhd and supported John V Palaiologus against John Kantakouznos. Stefan Dusan was a king of this ethnic group, and they were led by Black George during an uprising in the 19th century. The Obrenovi? Dynasty was established after the second uprising of this ethnic group, and a country named after this ethnic group was recognized at the Congress of Berlin. For ten points, name this ethnic group that rebelled against the Ottoman Empire and declared independence from Belgrade.

ANSWER: **Serbs** [accept **Serbians**]

250-14-67-07108

9. A story by this author features a family who enjoys lifting themselves and their horses up to a giant hunting horn. In another story by this author, a girl who lives in the castle of a misogynistic Count is distracted by a painting of centaurs while attempting to cut her breasts off. After discussing the King of Ava's elephants at dinner, the protagonist of a story by this author fights and rapes his fiancée; that story ends with the transformation of the Prioress of Abbey Six. In one of this author's stories, a ghost recalls being hung for piracy while visiting his two spinster sisters. This author wrote about a man who tells a story about "The Wine of the Tetrarch" before unwrapping his bandages and revealing that he is not the Cardinal, but Kasparson. For 10 points, name this author who included "The Monkey," "Supper at Elsinore," and "Deluge at Norderney" in her Seven Gothic Tales.

ANSWER: Isak **Dinesen** [or Karen von **Blixen**-Finecke]

252-14-67-07109

10. In a novel by this author, the protagonist escapes from a mob disguised with a green tunic and turban that disappear after he spends the night at a weaver's cottage. This author concluded one poem by declaring, "[I] sing to please myself alone" rather than to please the Maid of Dunedin. This man made his reputation with a poem where Mary, Queen of Scots returns home titled *The Queen's Wake*. His most famous novel contains a puritanical woman named Rabina, who gives birth to the author of a manuscript found in a grave next to a skull with horns growing out of it. In that novel by this one-time shepherd and author of *The Three Perils of Man*, George Colwan is murdered by the serial killer and Calvinist Robert Wringham. For 10 points, name this Scottish author of *Private Memoirs and Confessions of a Justified Sinner*.

ANSWER: James **Hogg**

094-14-67-07110

11. The tracts contained within this structure cross over at the decussation of the pyramids. An infarct to the lateral part of this structure can lead to dysphagia, ataxia and violent hiccups in Wallenberg syndrome. BIMU-8 acts on the Pre-Botzinger complex in this region. Both the area postrema and the chemoreceptor trigger zone are part of this structure. Those structures are responsible for vomiting. This region of the brain is the origin of cranial nerves nine through twelve. This region lies inferior to the pons and anterior to the cerebellum. Responsible for autonomic functions like breathing, for 10 points, name this region at the base of the brain that relays information from the spinal cord.

ANSWER: **medulla** oblongata [prompt on "brainstem"]

245-14-67-07111

12. Paintings of Venus and Adonis and the stock-character Peeckelhaering hang in the background as a boy plays with arrows stored in a hat in one of this artist's paintings. A woman in what today looks like a Santa Claus outfit sprinkles salt on to the title food and stares seductively at the viewer in another of his paintings. In one of the many self-portraits of this artist of *The Doctor's Visit*, he sits cross-legged next to a pewter jar playing the lute. A child wearing a paper crown and standing on a bureau takes a sip of wine in his *Twelfth Night*. In another painting, a little girl in yellow holds a doll of John the Baptist given to her on the title *Feast of St. Nicholas*. For 10 points, name this Dutch Golden Age master of genre scenes like *The Merry Family*.

ANSWER: Jan (Havickszoon) **Steen**

094-14-67-07112

13. The legality of this practice was upheld by Judge Michael Forster's decision in the Broadfoot murder trial. Charles Knowles's support of this activity sparked a 1747 riot in Boston. James Gillray's cartoon *The Liberty of the Subject* depicts this practice, which was called a "great tyranny" by Samuel Pepys. Members of the Fencibles were exempt from this practice, as were those who carried Protection papers. One myth states that practitioners of this activity would drop King's shillings into beer mugs. This practice is similar to crimping and shanghaiing, and its use on Americans led to the *Chesapeake-Leopard* affair and the War of 1812. For 10 points, name this practice in which namesake "gangs" would force men to serve in the Royal Navy.

ANSWER: **Impressment** [or other word forms; or the **press** gang; prompt on **kidnapping**; prompt on **conscription**; do not accept or prompt on **shanghaiing** or **crimping**]

252-14-67-07113

14. One book by this thinker opens by describing the death of Annette Jean, and notes the willingness of its subjects to describe themselves as "the poor." This anthropologist uses a story about Anite, who has a large fungating mass, to illustrate the "materiality of the social" in his Sidney Muntz Lecture "An Anthropology of Structural Violence." This anthropologist argued that structural violence underlies both human rights violations and disease, and in another work, he investigated claims that HIV was brought from Haiti to America. This author of *Pathologies of Power* and *AIDS and Accusation* co-founded Partners in Health and worked with Ophelia Dahl to set up the Zanmi Lasante hospital in Haiti. For 10 points, name this medical anthropologist, the subject of Tracy Kidder's biography *Mountains Beyond Mountains*.

ANSWER: Paul Edward **Farmer**

237-14-67-07114

15. One work in this collection opens, "Some of us who live in arid parts of the world think about water with a reverence others might find excessive", while another describes an unfinished governor's residence; those works are titled "Holy Water" and "Many Mansions". Its author described crippling migraine attacks in the entry, "In Bed". Its "Women" section includes an essay on Georgia O'Keeffe. In the title work in this collection, the author argues, "In another sense the Sixties did not truly end for me until ... I left the house of Franklin Avenue". That title essay reproduces the psychiatric report on the author's nervous breakdown and opens, "We tell ourselves stories in order to live". For 10 points, name this collection of essays by Joan Didion whose title derives from the record on which "Helter Skelter" appeared.

ANSWER: *The* **White Album**

094-14-67-07115

16. ?This woman coordinated with Celia Roady to ask a planted question that allowed her to explain the issuance of a "BOLO order." This attorney was the head of the FEC's enforcement division from 1986 until 2001, in which role she had a long-running feud with James Bopp, the lead attorney for the Christian Coalition. In July 2014, it was revealed that this woman had denounced "assholes and crazies" just after the existence of backup tapes for a previously-thought shredded hard drive came to light. In May 2014, the House voted to hold this woman in contempt of Congress after she refused to explain her role in issuing keywords such as "patriot" and "constitution" in 2010. For 10 points, name this former head of the Exempt Organizations Unit at the IRS who is at the center of the nonprofit group partisan targeting scandal.

ANSWER: Lois **Lerner**

019-14-67-07116

17. One variety of this mineral occurs naturally from the metamorphism of dolomitic limestone. That variety of this mineral reacts with quartz to form enstatite. This mineral differs from quartz in that it cannot form from magmas rich in silica. Bina and Wood attribute a sharp increase in seismic velocity at 400km to this material's transformation to its spinel-structure. This mineral undergoes weathering most easily according to the Goldich dissolution series. Its iron-rich version is known as fayalite. These minerals form the majority of the Earth's upper mantle. It is located above pyroxene on the discontinuous branch of Bowen's reaction series, making it the highest-ranking member. For 10 points, name this magnesium-iron-silicate whose green gem form is called peridot.

ANSWER: olivine [accept forsterite until "iron-rich"]

245-14-67-07117

18. The French proverb that the real form of this figure "is the one who gives you dinner" and the French term "Sosie" meaning a look-alike both come from a Moliere play about this figure. He was assisted in one task by a woman who had the ability to catch everything that she pursued. He lost a kingship after throwing a club at a herd of cattle. With the help of Procris and Cephalus he resolved a problem with a fox that was hounding Thebes. He bested one foe by having that foe's daughter pluck out her father's golden hair, rendering him no longer immortal. This man was appointed king so that his uncle could avenge the death of his sons at the hands of the Teleboans, but accidentally murdered Electryon. He was the father of Iphicles, the younger of the two sons of his wife Alcmena. For 10 points, name this stepfather of Heracles.

ANSWER: Amphitryon [or Amphitruo]

094-14-67-07118

19. Both this opera and Giovanni Paisiello's 1781 setting of the same libretto use a similar deceptive cadence with a rising semitone in the bass before one character calls another's name in a failed attempt to summon her. One character in this opera insists, "You keep saying 'no' when you mean to say 'yes'" during the duet "Lo conosco a quegli'occhietti." Another character in this opera silently demands a 4,000 crown dowry while dressed as a soldier named Tempesta. Jean-Jacques Rousseau boosted this opera's reputation in his *Letter on French Music* after its 1752 performance in Paris sparked the Querelle des Buffons. It was originally performed as an intermezzo to the composer's *Il Prigioniero Superbo*. For 10 points, name this *opera buffa* in which the silent Vespone helps the servant Serpina marry her master Uberto, a work by Giovanni Battista Pergolesi.

ANSWER: *La Serva Padrona* [or *The Servant Turned Mistress*; or equivalents]

237-14-67-07119

20. A poem by this author includes the lines "A lily of a day, Is fairer far in May" and states that man is not made better by "growing like a tree / In bulk." He told himself to sing "Safe from the wolf's black jaw and the dull ass's hoof" in "An Ode to Himself." In another poem, this author wrote that "All Parnasus' green did wither" and "Pegasus did fly away" after the invention of "the rack of finest wits." The speaker of one of his poems tells a woman that he sent her "a rosy wreath" that "smells, I swear, / Not of itself, but thee." He wrote "He was not of an age, but for all time!" in an elegy for another poet. This author of "A Fit of Rhyme against Rhyme" addressed "thou child of my right hand" in one poem and asked "Drink to me only with thine eyes" in another. For 10 points, name this poet of "On My First Son" and "To Celia."

ANSWER: Ben Jonson

252-14-67-07120

21. This philosopher claimed that novel writers must create villagers and provincials out of their readers by limiting their horizons. In another essay, this philosopher described how the death of a man affects his wife, his doctor, a reporter, and a painter in different ways. That essay by this philosopher uses the term "the will to style" to describe the progressive deformation of reality in its title discipline. This author of *Notes on the Novel* championed the concept of "vital reason" as the key to his perspectivist approach. He criticizes "Mr. Satisfied" as an example of the newly powerful "mass-man" in another book. In *Meditations on Quixote*, this philosopher declared that "I am myself and my circumstances." For 10 points, name this Spanish author of "The Dehumanization of Art" and *The Revolt of the Masses*.

ANSWER: José **Ortega** y Gasset

237-14-67-07121



1. Later members of this philosophical tradition, such as Proclus, practiced theurgy, as described in *On the Egyptian Mysteries* by Iamblichus. For 10 points each:

[10] Name this philosophical tradition founded by Plotinus which posits a first principle called the One, which is simple and beyond being. Its other members include Plotinus's student Porphyry, who compiled the *Enneads*.

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

[10] Neoplatonism was an influence on some Italian Renaissance humanists, including this friend of Marsilio Ficino who wrote the "Oration on the Dignity of Man" to introduce 900 theses called the *Conclusions*.

ANSWER: Giovanni **Pico della Mirandola** [prompt on partial answer]

[10] Pico della Mirandola influenced this German philosopher, who claimed God must be understood through a *coincidentia oppositorum* between rational and supernatural understanding in *On Learned Ignorance*.

ANSWER: **Nicholas of Cusa** [accept **Nicolas Cusanum**; prompt on partial answer]

237-14-67-07201

2. In 1857 Chinese laborers revolted against one of these rulers after he instituted a high opium tax, and this dynasty had its capital at Kuching. For 10 points each:

[10] Name this dynasty that controlled the Miri oilfields and ruled Serawak from the mid-1800s to the mid-1900s.

ANSWER: **White Rajahs** [accept **Brooke** Dynasty]

[10] The White Rajahs ruled Serawak, which is on this island. This island is also home to Brunei and is mostly under Indonesian control.

ANSWER: **Borneo**

[10] Under the Rajahs, this type of person was banned from Serawak. Paget Wilkes worked as one of these people in Japan, and Pearl S. Buck's father worked as one of these people in China.

ANSWER: Christian **missionary** [or Catholic **missionary**]

250-14-67-07202

3. This character's journey was delayed by Hurricane Donna and eventually extended from Long Island to Fremont Peak. For 10 points each:

[10] Name this French poodle whose lack of inoculations prevented his owner from taking a planned route across Canada during the Detroit segment of his journey in a 1960 book.

ANSWER: **Charley**

[10] *Travels With Charley* is a critique of changing America by this author of *Sea of Cortez* and *The Wayward Bus*.

ANSWER: John **Steinbeck**

[10] Steinbeck's other nonfiction includes 1948's *A Russian Journal*, which was created in collaboration with this photographer of *The Magnificent Eleven*, *images of D-Day*, and *The Falling Soldier*.

ANSWER: Robert **Capa**

019-14-67-07203

4. Martin Luther King delivered a speech titled "Give Us [This Thing]" during the 1957 Prayer Pilgrimage. For 10 points each:

[10] Identify this first title object in a 1964 speech given at Cleveland's Cory Methodist Church whose speaker declared that he was "One of the 22 million Black people who are the victims of democracy".

ANSWER: the **ballot**

[10] The pilgrims in the Prayer Pilgrimage journeyed to this city, later the site of a 1963 march for "Jobs and Freedom".

ANSWER: **Washington, D.C.** [or the **District of Columbia**; accept any underlined answer]

[10] This one-time leader of the NAACP spoke at the Prayer Pilgrimage. Under his leadership, the NAACP helped black-owned businesses get loans in the South by backing the Tri-State Bank, and he eventually stepped down in 1977.

ANSWER: Roy **Wilkins**

094-14-67-07204

5. This opera ends with the protagonist singing "Maman!" succeeding the fugue "Il est bon, l'enfant, il est sage" and a bunch of parallel fourths in the oboes. For 10 points each:

[10] Name this opera, in which a kid finds that his toys come to life after he throws them around during a tantrum. It amusingly features an Chinese cup and Wedgwood teapot that speak a bizarre English pidgin, and a duet sung entirely in cat sounds.

ANSWER: *L'Enfant et les Sortilèges*: *Fantaisie lyrique en deux parties* [or *The Child and the Spells*: *Lyric Fantasy in Two Parts*, or near equivalents]

[10] This French composer set Colette's libretto in *L'Enfant et les Sortilèges*, though he may be better known for ballets such as *Daphnis et Chloé*.

ANSWER: Joseph-Maurice **Ravel**

[10] Ravel's only other finished opera was this work, in which Torquemada's wife Concepción falls for the muleteer Ramiro after he carries two clocks, in which the poet Gonzalve and the banker Don Iñigo are hiding.

ANSWER: *L'heure espagnole* [or *The Spanish Hour*]

237-14-67-07205

6. Roy Rappaport argued that the Tsembaga regulated their population through a ritual cycle involving the periodic slaughter of these animals. For 10 points each:

[10] Name these animals which are also at the center of the moka exchange in New Guinea. Marvin Harris attributes taboos against their consumption to deforestation.

ANSWER: **pigs** [or **hogs**, **swine**, or various other synonyms; do not accept "boar"]

[10] In *The Rise of Anthropological Theory*, Marvin Harris coined this term for his research orientation based on etic explanations of culture in terms of adaptations to practical problems, like ecological constraints.

ANSWER: **cultural materialism**

[10] In *Cows, Pigs, Wars, and Witches*, Harris explains these Melanesian religious movements as a response to inequality resulting from colonialism. A noted one of these movements venerates a GI named John Frum.

ANSWER: **cargo cults**

237-14-67-07206



7. HP is pouring massive research dollars into a project dubbed "the Machine" which is built around the new computing possibilities of these components. For 10 points each:

[10] Identify these components originally formulated by Leon Chua in 1971. In 2008, researchers at HP claimed to have found one of these devices, whose resistance depends on the previous flow of charge, in titanium dioxide.

ANSWER: **memristors**

[10] One way to create a memristor is to place a barrier of this type of material between some metal electrodes. These type of materials only exist below the Curie point and are exemplified by room-temperature Nickel.

ANSWER: **ferromagnets** [or **ferromagnetic** material]

[10] Meuffels and Soni argued that HP's implementation of the memristor was invalid in part because it violated this man's namesake principle, which governs the lower limit on computational energy consumption. This man, who is not Oliver Penrose, argued that erasing one bit of information increases by at least  $k \ln 2$  the entropy of an environment.

ANSWER: Rolf (William) **Landauer**

094-14-67-07207

8. This item had forms such as Atet in the morning and Sektet in the evening. For 10 points each:

[10] Identify this vessel which was routinely attacked by Apep.

ANSWER: Ra's **solar barge** [or the **ship of Ra**, etc.]

[10] Overnight, the solar barge passes from west to east through this Egyptian underworld ruled by Osiris.

ANSWER: **Duat**

[10] These passages recovered from Middle Kingdom paintings are the source of much knowledge about Egyptian underworld beliefs. They are the oldest reference to the judgment of Osiris.

ANSWER: **Coffin Texts**

019-14-67-07208

9. The title figure of this painting is depicted bent over, with his eyes wide open in the moment of realization. For 10 points each:

[10] Identify this painting where the title figure sticks his dirty right index finger into the open wound of another figure.

ANSWER: *The **Incredulity of St. Thomas*** [or ***Doubting Thomas*** or anything mentioning **Thomas** and some **uncertainty**]

[10] *The Incredulity of Thomas* was painted by this Baroque Italian artist whose other religious scenes include the *Supper at Emmaus* where a disciple holds out his arms, and *The Calling of St. Matthew*.

ANSWER: Michelangelo Merisi da **Caravaggio**

[10] The balding antagonist of this other religious scene by Caravaggio interlaces his fingers with the title figure and brings his mouth extremely close to the title figure's face. A soldier in black armor with his back to the viewer mostly obscures a man holding up a lantern on the right of this canvas.

ANSWER: *The **Betrayal of Christ*** [or *The **Taking of Christ*** or ***Cattura di Cristo***]

094-14-67-07209

10. Henry-Louis de La Grange, whom Alex Ross called "a French baron with a...fetish [for this composer]", has published a massive four-volume biography of this composer. For 10 points each:

[10] Identify this composer of works like *Songs on the Death of Children* and the *Ruckert-Lieder*.

ANSWER: Gustav **Mahler**

[10] La Grange rejects Leonard Bernstein's reading of the syncopated motif in the opening of this Mahler symphony as representing the composer's heart arrhythmia. Its final movement, marked *zuruckhaltend*, contains a quote from the *Songs on the Death of Children*.

ANSWER: Mahler's **Ninth** Symphony

[10] La Grange's third volume on Mahler's "Triumph and Disillusion" in Vienna describes the conductor's "heroic battle" for the right to premiere this opera in Vienna. Mahler failed, and this opera which ends with "the most sickening chord in all of opera" premiered in Dresden instead.

ANSWER: **Salome**

094-14-67-07210

11. This building's popular name comes from the man who owned it prior to its seizure in the 1994 banking crisis. For 10 points each:

[10] Name this 45-story skyscraper in Caracas in which the government has encouraged people to squat since 2007, prior to 2014 evictions.

ANSWER: the **Tower of David** [or **Centro Financiero Confinanzas**]

[10] This current president of Venezuela has suggested selling the tower to Chinese investors.

ANSWER: Nicholas **Maduro**

[10] This founder of Voluntad Popular was arrested by the Maduro regime in February 2014, and has since been the subject of Human Rights Watch complaints over torture and isolation from his attorneys and family in Ramo Verde military prison.

ANSWER: Leopoldo **Lopez**

019-14-67-07211

12. They are composed mainly of low density basalt in the form of ejected tephra. For 10 points each:

[10] Name this type of volcano, the smallest and most common. One example is Paricutin.

ANSWER: **cinder cone** [or **scoria cone**]

[10] In 1943, Paricutin underwent this type of eruption consisting of many small, explosive bursts of lava and gas at 20-30 minute intervals.

ANSWER: **Strombolian** eruption

[10] Like Stromboli, this stratovolcano also has a variety of eruption named for it. Located on Martinique, it erupted in 1902 and its pyroclastic flows and hot ash left only two survivors.

ANSWER: Mount **Pelee**

245-14-67-07212

13. This party was embroiled in a donations scandal during the 1990s. For 10 points each:

1[0] Name this German party that was led by Helmut Kohl at the time. It is currently led by Angela Merkel.

ANSWER: **Christian Democratic Union**[accept **CDU**; accept **Christian Democrats**]

[10] The donations scandal helped lead to the rise of this SPD politician and German Chancellor for the late 1990s and early 2000s. This guy helped get the Nord Stream Pipeline built and ruled in a coalition with Joschka Fishers' Green Party.

ANSWER: Gerhard Fritz Kurt **Schroeder**

[10] The dastardly Karlheinz Schreiber, whose donations caused the CDU scandal, was also involved in a scandal along with Brian Mulroney named after this company. This company was found to receive heavy subsidies from the EU by the WTO in 2010.

ANSWER: **Airbus** SAS [or **Airbus** Group]

250-14-67-07213

14. This director zoomed in on the face of Spencer Tracy's character Clinton Jones as Tracy describes how his mother killed herself in a boarding house in the middle of a characteristic long take at a kitchen table in his 1953 film *The Actress*. For 10 points each:

[10] Identify this director of *What Price Hollywood?* Victor Fleming replaced him as director of *Gone With the Wind* but he did do full directorial duty on hits like *The Philadelphia Story*.

ANSWER: George (Dewey) **Cukor**

[10] Cukor's pretty much remade his film *What Price Hollywood?* by making the second version of *A Star Is Born*, which starred this actress as Esther Blodgett, who changes her name to Vicki Lester. She sang "Over the Rainbow" in her best known role.

ANSWER: Judy **Garland** [or Frances Ethel **Gumm**]

[10] In this other Cukor film, Spencer Tracy and Katharine Hepburn star as lawyers who represent opposing parties in a case where a woman shoots her husband in the shoulder for having an affair. A trailer for this film asked, "Who wears the pants in \_your\_ family?"

ANSWER: **Adam's Rib**

094-14-67-07214

15. This man's murder of Sidero caused Hera's enmity towards him. For 10 points each:

[10] Name this kind of Iolcis who sends Jason after the Golden Fleece.

ANSWER: **Pelias**

[10] Pelias sends Jason to his assumed doom due to a prophecy, fulfilled by Jason following his crossing of a river, which says that a man dressed in this unusual way will be Pelias's downfall.

ANSWER: wearing only **one sandal**

[10] When he arrived in Colchis, Jason is told by this king, the father of Medea, that he must yoke two fire-breathing bulls and sew shut the mouth of a dragon to win the Fleece.

ANSWER: **Aeëtes**

019-14-67-07215

16. Identify the following about the conflict between the Ancients and the Moderns in literature, for 10 points each.

[10] Members of the Academie Francaise were outraged when this author read them a poem that contained the couplet, "And it was just as right for us to praise / The Age of Louis as Augustus' days." This author of *The Age of Louis the Great* popularized stories like "Bluebeard".

ANSWER: Charles **Perrault**

[10] One of those outraged academics was this Classicist whose *Le Lutrin* is a mock epic about where to place a lectern. His 1674 *L'Art poetique* outlined various classical rules that authors should follow.

ANSWER: Nicolas **Boileau-Despreaux**

[10] Bentley steals the armor of Phalaris and Aesop in an episode from this Anglo-Irish author's satire of the war between the two parties titled *The Battle of the Books*. One of his novels is partially set in Lilliput.

ANSWER: Jonathan **Swift**

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17. This poem dismisses claims of the Resurrection with the line "For no man under the sky lives twice, outliving his day." For 10 points each:

[10] Name this poem, which is narrated by Julian the Apostate, who explains the virtues of the title goddess over Christianity.

ANSWER: "**Hymn to Proserpine**"

[10] This author of "Hymn to Proserpine" was a Shakespeare scholar who wrote the long poem "Atalanta in Calydon."

ANSWER: Algernon Charles **Swinburne**

[10] Swinburne's Atalanta is thought to represent this cousin of Swinburne with whom he was in love prior to her marriage to another man. She shares her name with the contemporary American writer of *The Company of Women* and *Reading Jesus*.

ANSWER: Mary **Gordon**

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18. Liebig condensers are used in this process to provide a greater surface area for condensation. For 10 points each:

[10] Name this procedure in which vaporization-condensation cycles are used to separate out volatile components of a mixture.

ANSWER: fractional **distillation** [do not accept "simple distillation"]

[10] Those vaporization-condensation cycles are known as theoretical plates, of which the minimum necessary number can be calculated via this equation. This equation assumes total reflux.

ANSWER: **Fenske** equation

[10] The Perkin Triangle can be used to achieve these non-vacuum conditions in distillation. The purge and refill cycle is used to prepare a Schlenk line for these conditions, filling it with a gas like Argon.

ANSWER: **air-free** conditions [or **inert** conditions; accept obvious equivalents but do not accept or prompt on "vacuum"]

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19. This series came to an end in 1970 with the publication of *Last Things*. For 10 points each:

[10] Name this eleven-novel cycle which also includes *The Light and the Dark* and *The Corridors of Power*, and which follows Lewis Eliot through the twentieth century.

ANSWER: **Strangers and Brothers**

[10] The Strangers and Brothers series is the major fictional accomplishment of this author and physicist, whose concern with morality led him to be sarcastically dubbed "the greatest living nineteenth century author" during the 1960s. His lecture "The Two Cultures" condemned the "gulf of mutual incomprehension" between science and the humanities.

ANSWER: Charles Percy **Snow**

[10] This literary critic, who wrote *For Continuity* and *The Great Tradition*, and advanced the "third realm" theory, delivered the widely mocked response lecture "Two Cultures? The Significance of C. P. Snow" in which he advocated for ignorance of science.

ANSWER: Frank Raymond **Leavis**

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20. In this experiment, Phosphorus-32 and Sulfur-35 labelled T2 bacteriophages were used in turn to infect *E coli*, with the dead bacteria centrifuged. For 10 points each:

[10] Name this 1952 experiment that showed that DNA, rather than protein, was the genetic material passed on by the bacteriophages.

ANSWER: **Hershey-Chase** experiment [prompt on anything to do with a "blender"]

[10] Hershey and Chase came to their conclusions when they noticed the Phosphorus-32 sink to the bottom with the infected bacteria in the pellet region while the Sulfur-35 remained suspended in this liquid region.

ANSWER: **supernatant**

[10] This other experiment occurred 8 years prior to the Hershey-Chase experiment and saw rats injected with virulent strains of *Streptococcus pneumoniae*. It determined that the "transformative agent" in Griffith's experiment was DNA.

ANSWER: **Avery-MacLeod-McCarty** experiment [accept in any order]

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21. This politician defended a man accused of killing several police officers in the Carrickshock Massacre. For 10 points each:

[10] Name this founder of the Catholic Association and leader of the Catholic Emancipation movement.

ANSWER: Daniel **O'Connell**

[10] O'Connell signed this agreement with the Whig Party. This compact helped lead to the fall of Peel's government and to the beginning of Melbourne's six-year term as Prime Minister.

ANSWER: **Litchfield House** Compact

[10] O'Connell was also influential in the abolition movement where he probably met this leader of the movement. This very religious dude co-founded the ASS and was a leader of the Clapham Sect.

ANSWER: William **Wilberforce**

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