

ACF Winter 2010: Temporary Autonomous Zone

Edited by Andrew Hart, Rob Carson, Trevor Davis, Dennis Jang, and Eric Mukherjee

Packet by Michigan State (Sally Behrenwald, Aren Hellum, and Jeffrey Winter) and South Carolina A (Joseph Montoya, Robert Harden, and Eric Douglass)

Tossups

1. A parody of this author sees the speaker break his dancing partner's leg in Kenneth Koch's "Variations on a theme of" this poet. One of this man's poems claims that "Saxifrage is my flower that splits the rocks," while another describes the speaker admiring his own buttocks and claiming "I was born lonely, and I am best so!" That poem ends, "who shall say I am not the happy genius of my household," and its author mentions a "contagious hospital" and depicts bushes "gripping down and beginning to awaken" in another poem. This author who pilfered objects that were "delicious / so sweet / and so cold" also wrote of an object "glazed with rain water." For 10 points, name this poet of "To Asphodel, that Greeny Flower," "Spring and All," "This is just to Say," and "The Red Wheelbarrow"?
ANSWER: William Carlos Williams
2. The bull *In Eminenti* compared the doctrines of this group with those of Baianism. Francois Pinthereau and Nicolas Caussin wrote prominent refutations of their ideas. This sect drew comparisons to Calvinism due to its adherence to the concept of efficacious grace, which Clement XI condemned in the bull *Unigenitis*. Its adherents argued that rare confession was necessary for morality. Two members of this sect, Pierre Nicole and Antoine Arnauld, wrote the *Port-Royal Logic*. This sect's namesake and founder wrote the work *Augustinus*. One adherent of this heresy condemned the lax morality of the Jesuits in his *Provincial Letters*, a conflict known as the Formulary Controversy. For 10 points, name this Catholic heresy whose adherents included Blaise Pascal.
ANSWER: Jansenism [accept word forms]
3. Two characters in this show are eventually revealed to be the PTSD-suffering veteran Anthony Ceccoli and the painter Priya Tsetang. Its final episode will revisit the future world in which Mag and Zone are searching for Safe Haven. In the current season of this show, Senator Daniel Perrin has cleared Rossum Corporation of official wrongdoing, and Fran Kranz's character Topher Brink has developed the technology for remote wipes. This show's protagonist developed a romantic relationship with Paul Ballard, whose personality was stolen by Alpha, and allied with Adelle DeWitt after achieving self-awareness and escaping from the Attic. For 10 points, name this recently-cancelled FOX show which starred Eliza Dushku as Echo and which was directed by Joss Whedon.
ANSWER: Dollhouse
4. This artist chronicled the formation of Lake Berryessa and the abandoning of the town of Monticello in a work co-created with Pirkle Jones called *Death of a Valley*. Paul Taylor provided the text for a collaboration with this artist called *An American Exodus*. A man looks up angrily from his truck's steering wheel in this artist's *Ditched, Stalled, and Stranded*. Another work by this artist shows a man in a white hat leaning on a wooden fence with a cup between his arms. In the most famous work by this photographer of *White Angel Breadline*, two children bury their faces into the shoulders of Florence Owens Thompson, who looks worriedly off into the distance. For 10 points, identify this photographer whose Depression-era portraits of workers include *Migrant Mother*.
ANSWER: Dorothea Lange [accept Dorothea Nutzhorn; accept Pirkle Jones until his name is read]
5. One ruler of this polity consolidated power by defeating Achyuta of the Ahichhatra. That ruler of this polity issued gold coins commemorating his celebration of the *ashvamedha*, a horse sacrifice, and depicting himself playing the *veena*. Another ruler of this polity built the Iron Pillar of Delhi and took a title meaning "Sun of Valour," Vikramaditya. The fall of this empire is attributed to invasions by the mysterious Hephtalites, also known as White Huns. Its leaders included Skanda and Samuda and its capital was Pataliputra. This empire patronized Kalidasa, developed the concept of zero, and produced the Kama Sutra. For 10 points, name this empire that ruled India from around 320 to 550 AD, founded by Chandra.
ANSWER: Gupta Empire

6. Pattison and Degering prepared a version of this catalyst using an alloy of magnesium and acetic acid to remove inactive portions of its structure, and that catalyst improved significantly on Mozingo's W-2 version. Formaldehyde is entirely disproportionated within seventy minutes in the presence of it, and it catalyzes other Cannizzaro-type pathways effectively. Its preparation involves alloying aluminum and silicon and dissolving using sodium hydroxide. Its industrial applications include complete reduction of benzene and desulfurization processes. For 10 points, name this catalyst whose mesh surface structure allows for high catalytic activity, named for its discoverer and the metal it contains, nickel.

ANSWER: Raney nickel

7. A speech of this ruler is recorded on the Lyon tablet, and Hadrian extended this ruler's effort to drain the Fucine Lake. This ruler decreed that sick slaves left at the Temple of Aesculapius would be freed, and he upheld the rights of Egyptian Jews with his "Letter to the Alexandrians." This ruler temporarily restored the autonomy of Judea, but reclaimed it as a province after the death of Herod Agrippa I. He used elephants to conquer Camulodunum, and this ruler pardoned the captured general Caratacus after sending Aulus Plautius to conquer Britain. The freedman Narcissus wielded power under this man and helped to expose the plot of his wife Messalina. He was poisoned by his fourth wife, Agrippina. For 10 points, name successor to Caligula, the dice-playing fourth Roman emperor.

ANSWER: Claudius I [or Tiberius Claudius Caesar Augustus Germanicus; or Tiberius Claudius Nero Germanicus]

8. One variety of these entities was elucidated by R. L. Gregory and P. Heard, who expanded on Hugo Munsterberg's work with his namesake type of these, and Pierce attributed the effects of one to a "boring in" theory later expounded on by Fraser, who compared these to the "twisted cord," or Zollner types. An apparent angular distortion model was developed by Wagner, who described the effects of the canonical Jastrow and Poggendorf types, one of which features two adjacent arcs and the other which features a line drawn through a rectangle. Including examples like the Necker cube and Wittgenstein's duckrabbit, these are, for 10 points, what visual images which either distort a viewer's perception of them or offer multiple possibilities for their visual perception?

ANSWER: optical illusions

9. Along with dielectric constant, this property is diminished in the pyrochlore phase of a material. Tiersten developed a system of energy balances as an IEEE model for their activity. This behavior can be explained by coupling the equation setting displacement equal to permittivity times electric field with Hooke's law, then looking at the tensor elements. Materials with a center of symmetry cannot undergo this effect, which can be explained by noting that a change in the dipole configuration or density in a bulk material is accompanied by a change in the surface charge. For 10 points, name this property discovered in Rochelle salts by Pierre and Jacques Curie, found in materials like quartz in which an electric response results from stress or strain on a material.

ANSWER: piezoelectricity

10. This work mentions demons in "fire, flood, air, or underground" and asks that the stories of Cabuscan, Campbell, and Algarsife be told. This poem describes "the wondrous horse of brass / which the great Tatar king did ride" and a room where "embers teach light to counterfeit gloom." Its narrator claims that he may "Outwatch the Bear" while in a tower with "thrice-great Hermes" and "the spirit of Plato." Night often sees this work's narrator in his "Pale Career." The subject of this poem has "saintly image too bright/to hit the sense of human sight" and is driven by "the cherub Contemplation." This poem begins "Hence, vain deluding joys" and contains the line "Hail, divinest melancholy." For 10 points, name this companion poem to "L'Allegro" that was written by John Milton.

ANSWER: "Il Penseroso"

11. This author of a letter entitled "The Prayer of Twenty Millions" supported Nathaniel Banks's election as Speaker of the House, leading to this man's caning by Albert Rust. He was succeeded in his best known position by Whitelaw Reid. During the Civil War this man urged the slogan "forward on Richmond!" and he lost popularity after signing the bail bond of Jefferson Davis. This onetime ally of Thurlow Weed and William Seward joined with Carl Schurz and Charles Sumner to create an organization that pushed for civil service reform, the Liberal Republican Party. He was unsuccessful in his bid to defeat Ulysses S. Grant in the 1872 Presidential Election and died soon thereafter. For 10 points, name this founder and longtime editor of the *New York Tribune* who once urged "go west, young man."

ANSWER: Horace Greeley

12. This man attacked F.H. Bradley's *Principles of Logic* in "The Nature of Judgment." One work by this author argues that there is no reason to believe there can't be physical facts independent of mental facts, and that work asserts the absolute truth of a list of propositions including "there exists at present a human body, which is *my* body." Another of his works shows that "blue" cannot be the same as "the sensation of blue" in order to argue against the idea that *esse* is *percipi*. In addition to "A Defense of Common Sense" and "The Refutation of Idealism," he wrote a work that uses the open-question argument to show that there cannot be a meaningful definition of the concept of "good," a result known as the "naturalistic fallacy." For 10 points, name this British analytic author of *Principia Ethica*.

ANSWER: George Edward Moore

13. Daniel G. Wright pioneered the use of the Tumlirz equation of state for modeling the in situ density of these bodies. The ideal irregular surfaces of these bodies are compared to the reference ellipsoid by taking the angle between the plumb line and the ellipsoidal normal, which results in the "deflection of the vertical." The geoid is an equipotential surface that coincides with their mean surface level. The Coriolis Effect causes the wind to deflect the movement of the surface of these entities rightward. Near their edges, wind-driven cooler material surfaces in a process called upwelling. These bodies are also home to Ekman spirals and lie atop tectonic plates made of basalt, not granite. For 10 points, name these bodies that include the Arctic, Indian, Atlantic, and Pacific.

ANSWER: the Earth's oceans

14. This symphony features an oboe melody set against a round in its fourth movement, which is cited in Adorno's *Physiognomik* as the first example of its composer's namesake counterpoint. The "Landler" country dance is the basis for this work's second movement, which opens with a cuckoo's song played as an interval of a fourth as opposed to the usual interval of a third. Its composer described its finale as "the cry of a wounded heart" and requested that its seven horns stand up at its end, while its Blumine movement is often omitted. Its third movement, a funeral march, is based on the themes from "Frere Jacques." Parts of the first and third movements draw from its composer's *Songs of a Wayfarer*. For 10 points, which D-major musical work, the first by Gustav Mahler?

ANSWER: Mahler's Symphony No. 1 in D-Major, "Titan" [do not accept the first underlined part after "Gustav"]

15. The Drosophila X virus is thought to trigger this pathway as a means of innate immunity. This pathway is responsible for guiding H3K9 methylation in the centromeric regions of *S. Cerevisiae*. Disruption of P-bodies leads to blunting of this pathway, which was elucidated by the discovery of the lin-4 gene. The Flavr Savr tomato takes advantage of this pathway, which relies on exportin-5 to transport the products of Drosha cleavage to the cytoplasm. Argonaute selects the guide strand to load into the RISC complex, which then can target complementary mRNAs for degradation in this pathway. Craig Mello and Andrew Fire won the Nobel Prize for elucidating this pathway. For 10 points, name this mechanism which uses anti-sense RNA to silence a gene.

ANSWER: RNA interference [accept innate immunity before mention]

16. His full name appears only once in his works, on a sign hanging from a tree branch in his painting *Adam and Eve*. While visiting Italy, this artist created the *Feast of Rose Garlands*, which served as the altarpiece for the San Bartolomeo Chapel. This artist created a self-portrait in which he holds a hand to his fur collar while a golden inscription to his right notes that he has "portrayed himself in colors aged twenty-eight years." Another of his works features a sleeping dog and a supine lion in front of the title character, who writes at his desk. He also depicted a ponderous angel sitting near a truncated rhombohedron and a magic square. For 10 points, name this artist of *St. Jerome in His Study* and *Melencolia I*, whose other woodcuts include *The Four Horsemen of the Apocalypse*.

ANSWER: Albrecht Dürer

17. The word "wood" strung together eight times forms the first line of a Derek Mahon concrete poem depicting this type of object. James Russell Lowell titles an essay collection which includes "My Garden acquaintance" and "Abraham Lincoln" after a set of these in his study. Along with a sign, one of these is in the title of a work which features the Wally O'Hara Campaign song. Reverend Curtis Hartmann breaks a stained one in *Winesburg, Ohio* after seeing a woman in the nude. In a Lorraine Hansberry play, one containing a sign belongs to Sidney Brustein. One of these circumcises Tristram Shandy. One featured in a short story is entered by Ronnie and Mr. Sappleton, causing Framton Nuttel to flee the scene. For 10 points, name this portal that is "open" in a Saki short story.

ANSWER: a window [accept window sill, window pane, other portions of a window]

18. This character sometimes tests visitors with questions like “Did you come here of your own free will, or did someone send you?” This guardian of the Waters of Life and Death gave the gift of a flaming skull to a girl who did all the chores this figure asked her to do without complaint. This rewarder of Vasilissa the Wise is guarded by a trio of horsemen, who are colored white, red, and black to represent Day, Sun, and Night. Her residence is surrounded by a fence of bones. She flies in a mortar, using the pestle to steer and a silver birch broom to sweep away her tracks. For 10 points, name this hag from Slavic mythology who lives in a cabin that moves on chicken legs.

ANSWER: **Baba Yaga** [or **Baba Yaha**; or **Baba Jaga**; or **Jaga Baba**; or **Baba Roga**]

19. The KAN was one organization founded by leaders of this movement, as were K-231 and a revival of Junák, a scouting organization. A meeting discussing this movement was held at Cierná-nad-Tisou. The end of this movement was protested by Jan Palach with self-immolation. Oldrich Cernik and Ota Šik were leaders of it, and Ludvík Vaculík wrote a manifesto supporting it, the “Two Thousand Words.” The aims of this movement were largely carried out by the Action Program. It was followed by a period of “normalization” under Gustav Husák. The policy of “socialism with a human face” was championed during this period by Alexander Dubček, but it was soon ended by a Soviet crackdown. For 10 points, name this period of reform in 1968 Czechoslovakia.

ANSWER: **Prague Spring** [or **Praska Jaro**]

20. One poem by this man blames political unrest on his father drunkenly interrupting a Perahara procession. This author of “Letters and Other Worlds,” which appears in his collection *Rat Jelly*, penned a work in which the Storyville photographer E. J. Bellocq befriends the jazz cornetist Billy Bolden. This author wrote a novel in which a pair of anthropologists, the title character and Sarath Diyasena, discover and attempt to identify a skeleton nicknamed “Sailor.” Another work by this author of *Coming through Slaughter* contains such characters as the crippled thief Caravaggio and the nurse Hana, and features extended flashbacks depicting on Katharine Clifton’s affair with Almasy. For 10 points, name this Sri Lankan-born author of *Anil’s Ghost* and *The English Patient*.

ANSWER: Philip Michael **Ondaatje**

21. In this work, the teenaged Asya asks Dyomka to kiss her breast. When his son visits him at this novel’s titular location, the Party member Pavel Rusanov berates him for being too soft on a truck driver who lost a box of macaroni in a snowstorm. Like its author, the main character of this work has been exiled due to Article 58, which deals with counterrevolutionaries. The protagonist of this work is left sexually impotent because of his residence in the title place. At this novel’s end, the protagonist leaves a letter for Vera Gangart and boards a train back to Ush-Terek. For 10 points, name this work in which Oleg Filimonovich Kostoglov seeks treatment at the titular facility, a novel by Aleksandr Solzhenitsyn.

ANSWER: **Cancer Ward** [or **Rakovy Korpus**]

ACF Winter 2010: Temporary Autonomous Zone

Edited by Andrew Hart, Rob Carson, Trevor Davis, Dennis Jang, and Eric Mukherjee

Packet by Michigan State (Sally Behrenwald, Aren Hellum, and Jeffrey Winter) and South Carolina A (Joseph Montoya, Robert Harden, and Eric Douglass)

Bonuses

1. Proteins destined for this organelle are tagged with mannose-6-phosphate, and defects in those proteins lead to this organelle's namesake storage disorders. For 10 points each:
[10] Identify this organelle which is responsible for breaking down metabolites and organic compounds. They are acidic and contain hydrolases.
ANSWER: **lysosomes**
[10] Pompe's disease occurs when the lysosomes are unable to break down this polysaccharide, which is a branched polymer of glucose-1-phosphate molecules.
ANSWER: **glycogen**
[10] The metabolites digested by lysosomes are sometimes brought into the cell by this class of transporters, which hydrolyze ATP. They are also important in bacterial drug resistance, especially MDR1.
ANSWER: **ABC** transporter [or **ATP-binding cassette** transporter]
2. After graduating from Grinnell in 1960, this jazz pianist became a member of Donald Byrd's band and later premiered his tune "Watermelon Man" on his first album, *Takin' Off*. For 10 points each:
[10] Name this jazz pianist, a pioneer in funk and fusion who composed "Canteloupe Island" and "Maiden Voyage."
ANSWER: Herbie **Hancock** [or Herbert Jeffrey **Hancock**]
[10] Along with John McLaughlin and Chick Corea, Hancock played electric piano on *In a Silent Way*, the first album by this man to heavily feature electronic instruments. This artist's albums include *Bitches Brew* and *Birth of the Cool*.
ANSWER: Miles Dewey **Davis** III
[10] Hancock premiered this standard tune on the self-titled album of the Headhunters. This song alternates between b-flat seven and e-flat seven and contains a bass ostinato which begins and accompanies the entire piece.
ANSWER: **"Chameleon"**
3. While the titular object of this song is a-moldering in the grave, its soul goes marching on. For 10 points each:
[10] Give the name of this Union marching song from the U.S. Civil War, which purportedly refers to an abolitionist famous for an unsuccessful raid on Harper's Ferry.
ANSWER: **"John Brown's Body"**
[10] This American author used *John Brown's Body* as the title of his epic poem about the Civil War. Clay Wingate, Jack Ellyat, and Sally Dupré are among the main characters.
ANSWER: Stephen Vincent **Benet**
[10] This is the final line of Stephen Vincent Benet's poem "American Names." It is also used as the title of Dee Brown's history of American Indians in the west.
ANSWER: **"Bury My Heart at Wounded Knee"**
4. This figure held a dual monarchy with his brother Shamash-shum-ukin, who directly ruled Babylon, and his namesake library contains clay tablets of the Epic of Gilgamesh, the Enuma Elish, and others. For 10 points each:
[10] Name this son of Esarhaddon and king of the Assyrian Empire.
ANSWER: **Ashurbanipal**
[10] The Library of Ashurbanipal was located in this city that joined Ashur as Nimrud as one the three great Assyrian cities. It includes the now-reconstructed Mashki gate as well as the Shamash Gate.
ANSWER: **Nineveh**
[10] Ashurbanipal installed the first ruler of this name as the puppet monarch of Egypt. The second ruler of this name lost to Nebuchadnezzar at the battle of Carchemish, which led to the expulsion of the Egyptians from Syria.
ANSWER: **Necho**

5. In solids, this physical property takes on different values in compression and shear, which are dependent on the density and the Lamé parameters. For 10 points each:
 - [10] Name this property, equal to the square root of the bulk modulus divided by the density in fluids.
ANSWER: **speed of sound** [or clear equivalents]
 - [10] This dimensionless quantity, which represents the ratio of a given speed to that of sound in the medium, is equal to unity at the throat of a supersonic nozzle.
ANSWER: **Mach** number
 - [10] The Earth's transit through the solar medium produces a magnetic one of these, but the name is shared by the shock pattern produced by the transit of a supersonic blunt projectile. In contrast to an oblique shock, it is detached from the surface of the body.
ANSWER: **Bow** Shock

6. Name these Americans killed in famous duels, for 10 points each.
 - [10] This first secretary of the treasury was a leader of the Federalist Party. He fired first, but intentionally wasted his shot and was mortally wounded by Aaron Burr.
ANSWER: Alexander **Hamilton**
 - [10] This admiral, hero of the Barbary Wars and War of 1812, remains the youngest ever to have been a captain in the U.S. Navy. He was fatally wounded by Commodore James Barron; his shot smashed Barron's hip.
ANSWER: Stephen **Decatur**
 - [10] This attorney had killed twenty-six men in duels before facing Andrew Jackson, whom he nearly hit in the heart; his bullet remained in Jackson's lung for the rest of Jackson's life. Jackson's bullet abruptly ended his.
ANSWER: Charles **Dickinson**

7. Although betrothed to Simon Darre, she becomes pregnant by Erlend Nikulaussøn and marries him. Many years later, after his death, she joins a convent and eventually dies of the Black Plague. For 10 points each:
 - [10] Name the eponymous heroine of the trilogy consisting of the novels *The Bridal Wreath*, *The Mistress of Husaby*, and *The Cross*.
ANSWER: **Kristen Lavransdatter** [accept either]
 - [10] Name the Norwegian author of *Kristen Lavransdatter*, the recipient of the 1928 Nobel Prize in Literature and author of *The Master of Hestviken* and *Gunnar's Daughter*.
ANSWER: Sigrid **Undset**
 - [10] The title character of Undset's novel *Jenny* seeks artistic inspiration in this city. Aeneas leaves Carthage following the Trojan War and eventually founds this city.
ANSWER: **Rome**

8. It featured the Kitayama and the Higashiyama cultures and was founded by Takauji. For 10 points each:
 - [10] Name this period of Japanese history that began with the Northern and Southern Courts period and which followed the Kamakura as the second shogunate.
ANSWER: **Ashikaga** shogunate [or **Muromachi** period]
 - [10] This civil war during the Ashikaga shogunate broke out between Hosokawa Katsumoto and Yamana Sozen. This 1470s conflict saw the first Ikko-Ikki mobs against Samurai rule, and resulted in the Sengoku, or warring states.
ANSWER: **Onin** War
 - [10] This Jesuit missionary from Navarre arrived in Japan during the Muromachi with the help of accused murderer Anjiro. He used paintings brought from Europe to teach Christianity because he could not speak Japanese.
ANSWER: Francis **Xavier** [prompt on **Francis**]

9. Wagner especially enjoyed the passage beginning after the fourth bar of this piece. For 10 points each:
 - [10] Name this B-minor work, its composer's Opus 26, which was originally titled "The Lonely Island." Its first twenty-one bars were mailed in a letter to its composer's family while he was on tour.
ANSWER: **Hebrides Overture** [or **Fingal's Cave**]
 - [10] The *Hebrides Overture* was written by this composer, whose other symphonies include his fourth, or the *Italian*, and his third, or the *Scottish*, along with the incidental music to *A Midsummer Night's Dream*.
ANSWER: Felix **Mendelssohn**
 - [10] Mendelssohn also wrote a notable solo piece of this type in three movements for a particular instrument in E-minor, his Opus 64. Other musical works of this type include D major ones by Tchaikovsky and Sibelius.
ANSWER: **violin concerto** [prompt on partial answer]

10. Name some things about the lovely province of Manitoba, for 10 points each.
[10] Manitoba's capital is this hotbed for the New Democratic Party, which used to be home to the NHL's Jets until they treacherously moved to Phoenix to become the Coyotes.
ANSWER: **Winnipeg**
[10] Winnipeg is located at the confluence of the Red River of the North and this other river, which lends its name to the premiere horse track in Winnipeg.
ANSWER: **Assiniboine** River [accept **Assiniboia** Downs from the horse-savvy]
[10] This smaller western neighbor of Lake Winnipeg lies north of Lake Manitoba and is the second-largest lake in Manitoba.
ANSWER: Lake **Winnipegosis**
11. In the cosmogony of the *Ennead*, this deity was the consort of Sekhmet and the father of Nefertum. For 10 points each:
[10] Name this creator deity and patron of masonry, who ruled from the Primordial Mound, and was syncretized with Seker.
ANSWER: **Ptah**
[10] The cult of Ptah was centered in this city which served as the capital of the Old Kingdom. A large temple to Apis has been excavated here, and it is near the burial site of Saqqara.
ANSWER: **Memphis**
[10] Ptah's wife Sekhmet is frequently identified with this other deity and goddess of the Milky Way, commonly depicted as a cow.
ANSWER: **Hathor**
12. She became the ninth female player to complete the career Grand Slam with a 2003 victory in the Australian Open. For 10 points each:
[10] Name this current world number-one female tennis player who earned herself an \$82,500 fine for a profanity-laced tirade against a linesperson at the 2009 U.S. Open.
ANSWER: **Serena Williams**
[10] Serena Williams has openly criticized the system that allowed this Russian player, whose brother Marat recently retired, to hold the No. 1 ATP ranking without a Grand Slam victory.
ANSWER: Dinara **Safina**
[10] Serena and Venus have boycotted this California tournament since 2001 due to Venus's controversial withdrawal from their semifinal showdown. Serena defeated Kim Clijsters the following day.
ANSWER: Tennis Masters Series **Indian Wells** [or **BNP Paribas** Open]
13. Stellar equivalents of them have been found using eclipse mapping. For 10 points each:
[10] Name these self-propagating solar storms, the outer regions of which exceed the average photosphere temperature. This phenomenon leads to the observed correlation between their activity and the Earth's temperature.
ANSWER: **sunspots**
[10] Sunspots were rarely observed during this period from 1645 to 1715, which coincided with the coldest portion of the period known as the Little Ice Age.
ANSWER: **Maunder Minimum**
[10] This scientists' law predicts the changes in sunspot latitudes during a solar cycle. A solar minimum named for him preceded the Maunder Minimum.
ANSWER: Friederich Wilhelm Gustav **Sporer**
14. Name some things related to Clement Attlee, for 10 points each.
[10] Attlee first became prime minister by winning a shocking electoral victory in 1945 over this Conservative PM. Throughout World War II, Attlee served in this man's cabinet.
ANSWER: Winston **Churchill**
[10] He served in Attlee's cabinet as president of the Board of Trade until resigning due to Attlee's introduction of health service charges. This man would go on to serve as prime minister from 1964 to 1970 and from 1974 to 1976.
ANSWER: Harold **Wilson**
[10] This minister of health under Attlee resigned at the same time as Wilson. The architect of the National Health Service, he became leader and namesake of the radical left within the Labour Party.
ANSWER: Aneurin "Nye" **Bevan**

15. This man argued that humanity moved through the ages of the Divine, the Heroic, and finally the Human and that the “barbarism of reflection” causes the cycle to begin anew. For 10 points each:
[10] Name this Italian philosopher who authored *The New Science* in 1725.
ANSWER: Giambattista Vico
[10] This earlier Italian philosopher was forced to defend his work to Pope Innocent VIII, which resulted in thirteen of his 900 theses being condemned as heretical. His *Oration on the Dignity of Man* argued that humans are the only creatures capable of climbing the Great Chain of Being.
ANSWER: Giovanni Pico Della Mirandola [accept either or both underlined parts]
[10] Works by this contemporary of Pico include *Discourses on the Ten Books of Livy* and *The Art of War* as well as a work dedicated to Lorenzo the Magnificent, *The Prince*.
ANSWER: Niccolo Machiavelli
16. In response to the title question, Pierre Proudhon calls it theft by arguing that “de facto and de jure, [it] is contradictory in its nature.” For 10 points each:
[10] Name this entity described as “in flux” in the first part of a seminal work of corporate governance by Adolf Berle [“burley”] and Gardiner Means about “The Modern Corporation” and this.
ANSWER: private property
[10] Berle and Means cite this thinker in their descriptions of corporate “bigness.” His works include *Das Kapital* and *The Communist Manifesto*.
ANSWER: Karl Marx
[10] Corporate governance reform has come somewhat recently in the form of this 2002 act, which created a Public Company Accounting Oversight Board and dozens of rules by which U.S. public companies must comply.
ANSWER: Sarbanes-Oxley Act [accept Sox; or Sarbox]
17. This work is loosely based on the author’s experiences as a teacher in a boarding school in Brussels. For 10 points each:
[10] Name this novel in which Lucy Snowe works for Madame Beck, visits a confessor out of loneliness during the long vacation, falls in love with Paul Emanuel, and eventually sets up a school of her own.
ANSWER: Villette
[10] Name the author of *Villette*, whose other novels include *The Professor*, *Shirley*, and *Jane Eyre*.
ANSWER: Charlotte Bronte [prompt on Bronte; accept Currer Bell]
[10] In *Jane Eyre*, the title character’s marriage to Mr. Rochester is unable to proceed because he is still married to this “madwoman in the attic,” whose backstory was expanded in Jean Rhys’s *Wide Sargasso Sea*.
ANSWER: Bertha Antoinetta Mason [prompt on Mason; accept Antoinette Cosway (accept either part)]
18. Bodies of water in this condition are prone to algal blooms in their epilimnic regions and anoxia in the hypolimnic regions. For 10 points each:
[10] Name this condition, increasingly common because of human fertilization, defined by an overabundance of nutrients in a body of water.
ANSWER: eutrophic [accept word forms like eutrophy; or eutrophication]
[10] Eutrophication can be prevented through the use of buffer zones in this area near streams. This region gives its name to a legal system by which landowners adjacent to a body of water are afforded use of the water therein.
ANSWER: Riparian zones
[10] Pollution may also be mitigated by the use of swales, which increase runoff hold time, aiding this process, in which water enters the soil. Capillary action and gravity are the prime movers in this process.
ANSWER: infiltration

19. She stands with a monkey and cat in *Self Portrait with Thorn Necklace and Hummingbird*. For 10 points each:
 [10] Name this Mexican surrealist who depicted herself cutting her own vein in her double self-portrait. Her 1943 painting *Roots Raices* set a record at auction for a Latin American artist.
 ANSWER: Frieda **Kahlo**
 [10] Kahlo was married to this muralist, whose Marxist sentiments were evident in his portrait of Lenin in *Man at the Crossroads* and whose *Detroit Industry* series required aesthetic defense during the McCarthy era.
 ANSWER: Diego **Rivera**
 [10] *Man at the Crossroads* was originally executed for this New York landmark. Paul Manship's gilded recumbent Prometheus occupies one of its plazas. It also features a bronze Atlas that faces St. Patrick's across Fifth Avenue.
 ANSWER: **Rockefeller** Center
20. *A Personal Matter* and *Teach Us to Outgrow Our Madness* both describe this author's difficulties in dealing with his mentally-handicapped son, Hikari. For 10 points each:
 [10] Name this Japanese author who also wrote *The Game of Contemporaneity*.
 ANSWER: Kenzaburo **Oe** [accept names in either order]
 [10] This 1967 Oe work tells the story of two Shikoku brothers, one of whom, Takashi, caused the suicide of their sister by ending his incestuous relationship with her. The elder brother, Mitsusaburo, placed his handicapped son in an institution, but takes him back by the end of the book.
 ANSWER: *The **Silent Cry*** [accept **Man'en Gannen no Futtoboru** or **Football in the First Year of Man'en**]
 [10] This novel, Oe's first, tells the story of a group of boys seeking shelter from air raids. The boys end up locked in a warehouse by villagers fleeing a plague in this novel.
 ANSWER: **Nip the Buds, Shoot the Kids** [or **Memushiri ko-uchi**]
21. A feature unique to them is the water vascular system, composed of canals connecting their tube feet. For 10 points each:
 [10] Name this invertebrate phylum whose subphyla include the brittle stars and sea cucumbers.
 ANSWER: **echinodermata** [or **echinoderms**]
 [10] Organisms in this pentaradial class of echinoderms move solely via tube foot action, and do not actuate their arms to move, unlike their cousins, the brittle stars.
 ANSWER: **asteroidea** [prompt on **starfish**; or **sea stars**]
 [10] Organisms of class Asteroidea possess this porous wart-like structure on their aboral surface. It forms the water intake for the creature's water vascular system.
 ANSWER: **madreporite**