

2020 ACF Fall

Packet L by Editors

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Tossups

1. A poem by this non-American author describes the title objects being “already quite white with dew.” The narrator is “lying helpless at the porch in front of my door” and says “Life in the world is but a big dream” in another poem by this author of “The Jewel Stairs’ Grievance.” In a poem based on this author’s work, the speaker remembers a time “While my hair was still cut straight across my forehead” and promises to “come out to meet you / As far as Cho-fu-Sa.” Ezra Pound’s “The River Merchant’s Wife” was loosely based on poetry by this author, whose poems include “Waking from Drunkenness on a Spring Day.” For 10 points, “Quiet Night Thought” was written by what Tang-dynasty Chinese poet?

ANSWER: **Li** Bai [or **Li** Po or **Li** Bo or **Taibai**; accept names in either order (e.g. “Bai **Li**”)]

<World/Other Literature>

2. In one reaction, this molecule facilitates a 1,3 cycloaddition to form a five-membered ring that reverts to a zwitterionic (“TSVIT-ur-eye-ON-ick”) intermediate named for Criegee (“KREE-gay”). That reaction involves this molecule cleaving an alkene and yields two carbonyl compounds. The natural formation of this molecule due to ultraviolet radiation was described by Sydney Chapman. The Montreal Protocol sought to protect levels of this molecule by phasing out sources of free radical catalysts, including CFCs. Depletion of this molecule can lead to holes in its namesake protective layer of the stratosphere. For 10 points, name this triatomic allotrope of oxygen.

ANSWER: **ozone** [or **O3**; do not accept or prompt on “O” or “oxygen”]

<Chemistry>

3. A controversial theory about this event devised by future Senator Arlen Specter was attacked by New Orleans District Attorney Jim Garrison. In the aftermath of this event, police officer J. D. Tippit was killed by its perpetrator. Future Secretary of Treasury John Connally was wounded during this event. The “Babushka Lady” can be seen in a film of this event shot by Abraham Zapruder. The official investigation into this event was chaired by Chief Justice Earl Warren. This event, which took place in Dealey Plaza in Dallas, Texas, brought Lyndon Johnson to power. For 10 points, name this 1963 event where Lee Harvey Oswald killed the 35th President of the United States.

ANSWER: **assassination** of **John Fitzgerald Kennedy** [or **assassination** of **JFK**; or synonyms like the **death** or **murder** of **JFK**; prompt on **assassination** of **Kennedy** or similar]

<American History>

4. An opera house in this country has two granite and glass performance halls resembling twin boulders eroded by a river. That building in this country was designed by Zaha Hadid. Four steel columns resembling bamboo shoots support the headquarters of this country’s official bank, which was designed by an architect from this country. Rem Koolhaas (“KOHL-hoss”) designed an arch-like skyscraper in this country that is nicknamed “Big Pants” and is the headquarters of CCTV. Buildings in this home country of I. M. Pei often adhere to the principles of *feng shui* (“fung shway”). For 10 points, name this country home to cities like Guangzhou and Shanghai.

ANSWER: **China** [or People’s Republic of **China**; or **PRC**; or **Zhongguo**; do not accept or prompt on “Republic of China”]

<Other Arts>

5. In 1961, this studio hopped onto the production of *King of Kings* in an attempt to capitalize on the success of its previous Biblical epic film, *Ben-Hur*. This studio's cartoon division was where William Hanna and Joseph Barbera created *Tom and Jerry*. In the 1950s, a unit at this studio led by Arthur Freed produced a string of acclaimed musicals, including *Seven Brides for Seven Brothers*, *An American in Paris*, and *Singin' in the Rain*. This studio, whose motto is "Ars gratia artis," is partly named for the producer Samuel Goldwyn. *The Wizard of Oz* was produced by, for 10 points, what film studio represented by a roaring lion?

ANSWER: **MGM** [or **Metro-Goldwyn-Mayer** Studios Inc.]

<Current Events/Geography/Other Academic/Pop Culture>

6. This war was ended by the Campaign of the Hills, in which the leader of its losing side was killed. In the leadup to this war, the gunboat *Tacuari* ("ta-koo-AH-ree") captured a civilian steamship. The defeat of the Blanco Party by the Colorado Party help spark this war. A country named a department after Rutherford B. Hayes for his work as a mediator in the aftermath of this war. The leader of the losing side of this war was killed after the Battle of Cerro Cora. That man started this war by invading Mato Grosso and was named Francisco Solano López. For 10 points, name this war in which the namesake coalition of Argentina, Brazil, and Uruguay defeated Paraguay.

ANSWER: War of the **Triple Alliance** [accept **Paraguayan War** until "Paraguay" is read]

<World History>

7. In a proposed thought experiment intended to debunk this statement, a mirrored box instantaneously releases a single photon. This statement applies to observables that do not commute because they are Fourier transforms of each other, meaning they are conjugate variables. Shorter-lived quantum states have wider spectral width according to this principle's energy-time variant. The formal version of this principle states that the product of two variables' standard deviations is greater than or equal to \hbar over 2. For 10 points, name this principle whose most common form states that, based on initial conditions, a particle's position and momentum cannot be exactly predicted.

ANSWER: Heisenberg **uncertainty** principle [or **Heisenberg's** uncertainty principle]

<Physics>

8. William Wrede ("READ") argued that this book contains a recurring "Messianic Secret" motif to justify early Christian theological beliefs. This text originally ended with the discovery of Jesus's empty tomb, thus including none of Jesus's post-resurrection appearances. Because this text's author is credited with establishing the Church of Alexandria, he is considered the founder of the Coptic Church. Due to its ending and other peculiarities, many scholars believe this text is the earliest of the synoptic gospels. For 10 points, name this book of the New Testament, one of the four canonical gospels along with those of Matthew, Luke, and John.

ANSWER: Gospel According to **Mark** [or **Euangelion Kata Markon**]

<Religion>

9. This concept is the first word in the title of a book that frequently references Michel Foucault's readings of the memoirs of Herculine Barbin. Erving Goffman discussed the "ritualization of subordination" and the resulting "commercial realism" in a book titled for this concept's "advertisements." One thinker titled a book for "Undoing" this concept and argued that it was "constructed" rather than natural. That thinker, Judith Butler, wrote a text named for this concept's "Trouble," which was a foundational text for queer theory. For 10 points, name this social construct often distinguished from biological sex.

ANSWER: **gender**

<Philosophy/Social Science>

10. In a novel by this author, Tony divorces the corrupt businessman Bendix Grünlich (“GROON-lick”). That novel by this author ends with hot-chocolate-loving Hanno dying of typhoid, leaving the title merchant family destitute. In another work by this author, the protagonist is menaced by a series of red-haired men, including a gondolier who repeats “I can row you well.” After watching Jasiu (“YAH-shoo”) win a fight on the beach, that protagonist created by this author collapses and dies of cholera contracted by eating over-ripe strawberries. For 10 points, name this German author of *Buddenbrooks*, who depicted Gustav von Aschenbach’s lust for the 14-year-old Tazio (“TAH-joe”) in the novella *Death in Venice*.

ANSWER: Thomas **Mann**

<European Literature>

11. In a painting from this art movement, three workers restrain a large red horse as buildings are constructed in the background. That painting is *The City Rises*. Another painting from this movement depicts a dachshund whose legs are shown in many positions at once, creating a blurred effect. A speeding car is deemed more beautiful than the Victory of Samothrace (“SAM-oh-thrace”) in this movement’s manifesto. Artists in this movement include the painter of *Dynamism of a Dog on a Leash*, Giacomo Balla, as well as Umberto Boccioni (“bo-CHO-nee”). For 10 points, what early 20th-century art movement originating in Italy celebrated modernity and sought freedom from the past?

ANSWER: **Futurism** [or **Futurist**; accept Manifesto of **Futurism**]

<Painting/Sculpture>

12. The United Kingdom threatened this country after a mob in it destroyed a Portuguese merchant’s house in the Don Pacifico Affair. The turning point in this country’s war of independence came when its allies defeated Ibrahim Pasha at the naval Battle of Navarino in 1827. While fighting in Missolonghi (“mee-suh-LONG-ee”) in this country, Lord Byron contracted a fever and died. A group called the “Filiki Eteria” (“fill-ee-kee ay-tair-ee-AH”) fought for this country’s independence and was led by Alexander Ypsilantis (“ip-suh-LAN-tee”). For 10 points, name this country that gained independence from the Ottomans to establish a government with capital at Athens.

ANSWER: **Greece** [accept First **Hellenic** Republic; accept Kingdom of **Greece**]

<European History>

13. Georg Simon Klügel surveyed 28 incorrect attempts to prove this statement. In addition to groupings of axioms for incidence, order, congruence, and continuity, Hilbert’s axioms contain a standalone axiom equivalent to this statement. On surfaces with zero curvature, Proclus’s axiom and Playfair’s axiom are both equivalent to this statement. Geometry that is logically independent from this statement is known as absolute geometry, and geometries that violate this statement are known as non-Euclidean. For 10 points, name this postulate, the fifth and final one in Book 1 of Euclid’s *Elements*.

ANSWER: **parallel** postulate [accept **Euclid’s 5th** postulate until “fifth” is read]

<Other Science>

14. In a novel by this author, the protagonist spends the night in a sacred cave with the Pueblo native Jacinto. In that novel by this author, the abusive Buck Scales is hanged for the murder of four guests. Wick Cutter assaults a title character created by this author while she is working as a housekeeper for the Harling family. A novel by this author ends with Jean Marie Latour dying in the Santa Fe cathedral he constructed. A protagonist created by this author eventually marries Anton Cuzak, whom Jim Burden meets years later when he returns to Black Hawk, Nebraska. For 10 points, name this author of *Death Comes for the Archbishop*, whose “prairie trilogy” includes *My Ántonia*.

ANSWER: Willa **Cather**

<American Literature>

15. Until September 2020, this country was home to Jim Watkins, owner of the 8chan message board and the suspected real identity of “Q.” In this country, the head of the news site Rappler was convicted of “cyberlibel” after criticizing its ruling PDP–Laban party. Senators in this country include the former boxing champion Manny Pacquiao (“PACK-ee-ow”). This country’s president, the former mayor of Davao (“DAH-vow”) City, has overseen a crackdown on suspected drug users and dealers that has killed over 7,000 people since 2016. For 10 points, name this Asian country that Rodrigo Duterte (“doo-TAIR-tay”) governs from Manila.

ANSWER: **Philippines** [or Republika ng **Pilipinas**]

<Current Events/Geography/Other Academic/Pop Culture>

16. In order to honor a polemarch (“POLE-em-ark”) who died during this battle, the Nike of Callimachus was constructed. Cynegirus (“sin-uh-JY-russ”) lost his hand during this battle while trying to pull back a fleeing ship. One city refused to participate in this battle due to the Carneia (“kar-NAY-uh”) festival. This battle ended the last military campaign launched by Darius the Great before his death. The victorious forces in this battle were commanded by Miltiades (“mill-TIE-uh-deez”). After revealing the victory at this battle to the Athenians, Pheidippides (“fye-DIP-uh-deez”) supposedly died due to exhaustion. For 10 points, name this Greek victory in the Persian Wars, which shares its name with a modern 26.2 mile race.

ANSWER: Battle of **Marathon**

<Other History>

17. This character’s disembodied head is so large that it takes four men to transport it. This character’s death is celebrated with the gift of a lavish necklace, which is compared to another necklace stolen by Hama. Unferth discourages another man from fighting against this character, and incorrectly predicts this character’s victory. After defeating this monster, the sword Hrunting (“h’RUN-ting”) proves ineffective against this monster’s mother in a cave under a lake. After terrorising the mead hall of Heorot (“HEY-oh-rot”), this monster flees and dies in the marshes after his arm is torn off. For 10 points, in an Old English poem, what monster is defeated by Beowulf?

ANSWER: **Grendel**

<British Literature>

18. The psi packaging element of this pathogen is recognized by the Rev protein, which processes unspliced RNA. The genome of this pathogen can undergo translational frameshifting to produce the gag-pol polyprotein. This pathogen’s gp120 releases gp41 when it binds to CCR5. It’s not COVID-19, but the effectiveness of the “undetectable equals untransmittable” campaign in combating this pathogen was reported by Anthony Fauci (“FAO-chee”). This pathogen can be treated with AZT, which inhibits reverse transcriptase. This virus reduces the expression of CD4 by inserting itself into helper T cells to weaken the immune system. For 10 points, name this retrovirus that causes AIDS.

ANSWER: **HIV** [or **Human Immunodeficiency Virus**; prompt on **AIDS**]

<Biology>

19. Two of this composer’s violin concerti were heavily edited by Tivadar Nachez before being included in Suzuki Books 4 and 5. Alfredo Casella (“ka-ZELL-ah”) repopularized this composer’s *Gloria* and *Stabat Mater* in a “week” in 1939 dedicated to his music. This composer included concertos for 4 violins, 2 violins, and solo violin in his Opus 3, *The Harmonic Inspiration*. This composer wrote sonnets to accompany several concerti, one of which includes rapid 32nd notes depicting chattering teeth; that concerto is the fourth in his *The Contest Between Harmony and Invention*. For 10 points, name this Italian composer nicknamed “The Red Priest,” who composed *The Four Seasons*.

ANSWER: Antonio **Vivaldi**

<Classical Music>

20. The Pallantides tried to ambush this figure, but this figure managed to ambush them instead. This figure was sheltered by Hecale (“heh-KAH-lee”) while trying to capture the Marathonian Bull. This figure defeated King Cercyon (“KER-kee-on”) in a wrestling match. When this man’s father recognized his sword and sandals, he stopped Medea’s plot to poison this man. This man’s second wife Phaedra (“FAY-druh”) falsely accused his son of rape, leading this man to sentence Hippolytus to death. This man defeated the bandits Procrustes (“pro-CRUST-eez”) and Sciron (“SKY-run”). This man used a magical ball of thread from Ariadne to navigate the Labyrinth. For 10 points, name this founder and king of Athens who slayed the Minotaur.

ANSWER: **Theseus**

<Mythology>

Bonuses

1. One person with this name was the Duke of Guise (“gheez”) and led the French Catholic League. For 10 points each:

[10] Give this name shared by three men who vied for the French throne in a namesake war in the 16th century, the victor of which was from Navarre (“nuh-VARR”).

ANSWER: **Henry** [accept War of the Three **Henrys**, **Henry** IV of Navarre, **Henry** of Lorraine, or **Henry** VIII]

[10] Before ascending to the throne, Henry IV survived this event during the marriage of Margaret of Valois (“val-WAH”) to Henry III. Catherine de Medici ordered this massacre, named for a saint’s day, in which thousands of Huguenot (“HYOO-guh-not”) protestants were slaughtered.

ANSWER: **St. Bartholomew’s Day** Massacre

[10] Henry IV asserted his right to assume the French throne using this law code created by Clovis. This code was used to deny English claims to the French throne during the Hundred Years’ War as it forbade female inheritance.

ANSWER: **Salic** Law

<European History>

2. One artist invited the audience to cut off pieces of her clothing in a work of this type called *Cut Piece*. For 10 points each:

[10] Name this type of art constituted by the presence of the audience and the *actions* of the artist, which can be scripted or spontaneous. Critics often document this art form through photography or video to preserve it.

ANSWER: **performance** art

[10] *Cut Piece* is a performance art piece by this artist. This artist was photographed lying on a rug with her husband curled around her by Annie Leibovitz on the same day that he was murdered in New York City in 1980.

ANSWER: Yoko **Ono**

[10] Yoko Ono was a member of this 1960s international art movement whose name was coined by Lithuanian artist George Maciunas and is Latin for “flowing.” Joseph Beuys (“boyce”) was also part of this movement.

ANSWER: **Fluxus**

<Painting/Sculpture>

3. The narrator of this poem hears “an interrupted cry, but not to call me back or say good-bye.” For 10 points each:

[10] Name this poem in which the narrator describes outwalking “the furthest city light.” The title four-word phrase is restated in the final line, after the narrator sees a “luminary clock” that “proclaimed the time was neither wrong nor right.”

ANSWER: “**Acquainted with the Night**”

[10] This American poet wrote “Acquainted with the Night.” Another poem by this author begins “Something there is that doesn’t love” the title structure, and he also wrote a poem that discussed two possible elemental ways in which “Some say the world will end.”

ANSWER: Robert **Frost**

[10] Frost also described night-time travelling in a poem set by this location, where “My little horse must think it queer / To stop without a farmhouse near.” That poem set in this snowy location repeats that the narrator has “miles to go before I sleep.”

ANSWER: **woods** [or **forest**; accept “Stopping by **Woods** on a Snowy Evening”]

<American Literature>

4. The forked-line method can be used as an alternative to these diagrams. For 10 points each:

[10] Name these eponymous diagrams used to visualize the genotypic probabilities of offspring based on the genotypes of the parents.

ANSWER: **Punnett squares**

[10] Punnett squares represent this form of inheritance. This form of inheritance is named for the scientist who discovered the laws of dominance, segregation, and independent assortment while studying pea plants.

ANSWER: **Mendelian** inheritance

[10] A four-by-four Punnett square can be used to visualize these matings between two organisms that are both heterozygous for two different traits. These matings produce offspring with a genotypic ratio of 9:3:3:1.

ANSWER: **dihybrid crosses**

<Biology>

5. This deity cursed the moon god Chandra after Chandra mocked him for his potbelly. For 10 points each:

[10] Name this Hindu god of wisdom.

ANSWER: **Ganesh** [or **Ganapati** or **Vinayaka**]

[10] Ganesha is often depicted with the head of one of these animals. According to one story, Ganesha is missing a tusk in this form because he broke one off and used it to transcribe the *Mahabharata* (“muh-huh-BAH-ruh-tuh”).

ANSWER: **elephant**

[10] Ganesha once defeated his brother Kartikeya (“KAR-tih-KAY-uh”) in a race around the world by running in a circle around these people.

ANSWER: his **parents** [or equivalents like “**Shiva and Parvati**” or “his **mom and dad**”]

<Mythology>

6. Upon their initial discovery, this system was mistaken for two small planets joined up with a larger one. For 10 points each:

[10] Name this extensive system of ice particles that orbit around the second-largest planet in the solar system.

ANSWER: **Saturn’s rings** [prompt on partial answer]

[10] Saturn’s faint E ring originates from the jet plumes of this ice-covered moon, the most reflective body in the solar system. In 2018, complex organic molecules were discovered in this moon’s southern “tiger stripes.”

ANSWER: **Enceladus**

[10] Data collected by this spacecraft revealed the organic molecules originating from Enceladus’s global ocean. This spacecraft released the *Huygens* (“HIGH-guns”) probe, which landed on Titan, Saturn’s largest moon.

ANSWER: **Cassini** [accept **Cassini-Huygens** mission]

<Other Science>

7. The Inquisition of Mani culminated in a large book burning that destroyed codices from this civilization. For 10 points each:

[10] Name this Central American civilization whose cities included Tikal and Chichen Itza.

ANSWER: **Mayan** civilization [or **Mayans**]

[10] Books that survived the burning of this building in Baghdad were thrown into the Tigris River, causing it to supposedly turn black from ink. This building served as the intellectual center of the Abbasid Caliphate.

ANSWER: **House of Wisdom** [accept **Grand Library** of Baghdad; accept **Bayt al-Hikmah**]

[10] This ruler’s chancellor Li Si (“lee suh”) advocated burning books and burying Confucian scholars alive. This ruler from the 3rd century BC favored Legalism over the Hundred Schools of Thought.

ANSWER: Qin **Shi Huangdi** (“cheen shurr hwong-dee”) [accept **Ying** Zheng; accept **Zhao** Zheng; prompt on **Qin**]

<Other History>

8. After this poet's death, one of their poems in the collection *Simple Verses* was adapted into their country's most famous patriotic song. For 10 points each:

[10] Name this author who compared the title country to a "giant with seven-league boots" in the essay "Our America."

ANSWER: José **Martí**

[10] This author wrote three essays on Martí and described him as "the American teacher most ostensible in my writing." This Chilean poet mourned her lover Romelio Ureta's suicide in *Sonnets of Death*.

ANSWER: Gabriela **Mistral** [or Lucila Godoy **Alcayaga**]

[10] *This America of Ours* is a book of works in this form, exchanged between Mistral and Victoria Ocampo. Epistolary novels consist of this literary form.

ANSWER: **letters**

<World/Other Literature>

9. In 1963, this state burned down the historic Mountain House hotel in accordance with its constitutional requirement that most public land be kept "forever wild." For 10 points each:

[10] The Catskill Mountains cover the south-central portions of what US state?

ANSWER: **New York** [or **NY**]

[10] This town lies entirely within New York's Catskill Park. Jimi Hendrix and The Who were among the music acts that performed at a massive 1969 rock festival named for it.

ANSWER: **Woodstock**

[10] In the mid-20th century, the Catskills were home to a collection of Jewish summer resorts nicknamed for this Eastern European beet soup. Comedians like Mel Brooks got started by performing in its namesake "belt."

ANSWER: **borscht** [or **Borscht** Belt]

<Current Events/Geography/Other Academic/Pop Culture>

10. P. D. Q. Bach's *New Horizons in Musical Appreciation* pokes fun at making classical music "more accessible" by creating a sports parody of this symphony. For 10 points each:

[10] Name this Beethoven symphony in C minor that opens with a dramatic tutti "short-short-short-long" motif that is gradually transformed throughout its movements.

ANSWER: Beethoven's **Fifth** Symphony in C minor [or Symphony No. **5** in C minor]

[10] A cadenza-like solo for this woodwind instrument interrupts the orchestra in the first movement of Beethoven's Fifth. Beethoven wrote a trio for two of these instruments and the English horn, which players of this instrument often "double" on.

ANSWER: **oboe**

[10] That oboe cadenza occurs during this section of the first movement of Beethoven's Fifth Symphony. In sonata-allegro form, this section comes after the development and before the coda.

ANSWER: **recapitulation**

<Classical Music>

11. Ores of this element include hematite and magnetite. For 10 points each:

[10] Name this most common transition metal on Earth, whose atomic symbol is Fe.

ANSWER: **iron**

[10] Iron can be smelted into its crude “pig” form in one of these devices. Fuel, ore, and flux are continuously added to the top of these devices while hot air is supplied through the bottom.

ANSWER: **blast furnaces** [prompt on furnaces]

[10] Pig iron can be converted to steel through this eponymous industrial process. In this process, air is blown through molten pig iron to oxidize the metal and remove impurities before alloying materials are added.

ANSWER: **Bessemer** process

<Chemistry>

12. An author with this surname used Victorian-era colonial Africa and a 1979 London park as the two settings of her play *Cloud 9*. For 10 points each:

[10] Give this surname of a British playwright who set the first act of her play *Top Girls* at a dinner party featuring women from across history. Another author with this surname wrote a four-volume history that includes *The Birth of Britain* and *The New World*.

ANSWER: **Churchill** [accept Caryl **Churchill** or Winston **Churchill**]

[10] Churchill’s play *Imp*, which deals with themes of confinement, is often compared to this author’s play *No Man’s Land*. This author of *The Homecoming* wrote about the hitmen Ben and Gus in another of this author’s plays.

ANSWER: Harold **Pinter**

[10] Churchill’s play *Serious Money* depicts events around one of these institutions in London. Lucy Prebble’s play *Enron* sees the title company floated on one of these institutions, where corporate shares are bought and sold.

ANSWER: **stock exchange** [accept **stock market** or **securities exchange** or **bourse**; prompt on exchange or market]

<British Literature>

13. After a 2017 coup, this world leader was replaced by his former Vice President Emmerson Mnangagwa (“muh-nun-GAH-gwuh”). For 10 points each:

[10] Name this controversial former leader of ZANU-PF who spearheaded the creation of his country after the end of the Bush War and the dissolution of Rhodesia.

ANSWER: Robert Gabriel **Mugabe**

[10] Mugabe served as the longtime leader of this country. This country was created after the Lancaster House Agreement, which dissolved Rhodesia.

ANSWER: Republic of **Zimbabwe**

[10] This South African clergyman was a frequent critic of Mugabe. This man won the 1984 Nobel Peace Prize for his anti-apartheid advocacy and chaired the Truth and Reconciliation Commission.

ANSWER: Desmond Mpilo **Tutu**

<World History>

14. A book by William Nordhaus about addressing climate change is titled after the “global” form of this concept. For 10 points each:

[10] Name this concept, the focus of Nobel Prize winning work by Elinor Ostrom and Oliver Williamson. The most famous essay about this concept quotes Hegel in its declaration “freedom is the recognition of necessity.”

ANSWER: the **commons** [accept the global **commons** or the tragedy of the **commons**]

[10] Nordhaus is a Sterling Professor of Economics at this university in New Haven. Other economists who worked at this university include James Tobin, who got his Ph.D. at its rival, Harvard.

ANSWER: **Yale** University

[10] Garrett Hardin argued that the tragedy of the commons would lead to this sort of situation in which population growth advances beyond a reasonable limit. Hardin belongs to the “neo” form of its namesake economist’s system.

ANSWER: **Malthusian trap** [accept **Malthusian catastrophe**, **population trap**, **Malthusian check**, **Malthusian crisis**, **Malthusian spectre**, or **Malthusian crunch**; prompt on overpopulation]

<Philosophy/Social Science>

15. In Hinduism, one of these figures named Akka Mahadevi escaped from a forced marriage and spent the rest of her life praying to Shiva in the mountains. For 10 points each:

[10] Name these figures, exemplified by the poet Mirabai, who are often the subject of hagiographic folk legends. In Catholicism, these are individuals who have gone through the stages of beatification and canonization.

ANSWER: **saints** [or **sancti**; or **sants**]

[10] Akka Mahadevi and Mirabai were saints of this religious movement originating in medieval India, which emphasizes intense love and devotion for a particular deity. It also names a form of yoga.

ANSWER: **Bhakti** movement [or **bhakti** yoga]

[10] According to legend, Akka Mahadevi’s whole body was protected by this material. In Sikhism, this material makes up *kesh*, one of the “Five K’s,” which practitioners care for with a wooden *kanga*.

ANSWER: **hair**

<Religion>

16. The nonet that recorded this album featured unusual instrumentation, such as French horn and tuba, partially due to the influence of Claude Thornhill’s orchestra. For 10 points each:

[10] Name this pioneering jazz album that contains the tracks “Jeru,” “Venus de Milo,” and “Boplicity.” It also helped develop the style of West Coast Jazz.

ANSWER: ***Birth of the Cool***

[10] This bandleader’s nonet recorded *Birth of the Cool*. He included the tracks “So What” and “Freddie Freeloader” in his album *Kind of Blue*.

ANSWER: Miles **Davis**

[10] Kenny Clarke, a player of this instrument, had to substitute for Max Roach for *Birth of the Cool*, as Roach only attended 2 out of the 3 recording sessions. This instrument was also played by Buddy Rich.

ANSWER: **drums** [or **drumset**; prompt on percussion]

<Other Arts>

17. An equation describing these structural elements equates the second derivative of their deflection to a function of their moments and elasticity. For 10 points each:

[10] Name these structural elements that deflect by bending. The “engineer’s” theory of these elements is named for Euler and Bernoulli.

ANSWER: **beams**

[10] The elasticity in the beam equation is represented by an elasticity modulus, which is the ratio between these two quantities. A graph relating these two quantities contains a yield point.

ANSWER: **stress** AND **strain** [accept in either order; prompt on partial answer by asking “and what other quantity?”]

[10] The beam equation also contains a term for the second moment of this quantity. The average of this quantity for a beam’s cross-section is equal to the beam’s volume divided by its length.

ANSWER: **area** [accept “second moment of **area**” or “**area** moment of inertia”]

<Physics>

18. The findings of this Supreme Court case were partially overturned in the 2018 case *Trump v. Hawaii*. For 10 points each:

[10] Name this 1944 Supreme Court case which ruled that Executive Order 9066 was legal due to the military’s obligation to protect the West Coast from foreign invasion.

ANSWER: ***Korematsu v. United States***

[10] *Korematsu v. United States* was the first application of this standard of judicial review. This standard was introduced in Footnote 4 of *U.S. v. Carolene Products Co.* where it was contrasted with the “rational basis test.”

ANSWER: **strict scrutiny** [prompt on **scrutiny**; do not accept or prompt on “intermediate scrutiny”]

[10] Felix Frankfurter, a proponent of strict scrutiny, was appointed to the Supreme Court by this president. This president oversaw Japanese internment while leading the United States through World War II.

ANSWER: **F**ranklin Delano **Roosevelt** [or **FDR**; prompt on **Roosevelt**]

<American History>

19. To illustrate his “indeterminacy of translation” thesis, this thinker posited a situation involving a speaker who exclaims “Gavagai!” upon seeing a rabbit. For 10 points each:

[10] Name this 20th-century American philosopher who rejected reductionism and the analytic-synthetic distinction in his paper “Two Dogmas of Empiricism.”

ANSWER: W. V. O. **Quine** [or Willard van Orman **Quine**]

[10] Quine pursued what he called a “naturalized” version of this branch of philosophy, which is concerned with the nature of knowledge. It is often contrasted with ontology, which is concerned with the nature of existence.

ANSWER: **epistemology**

[10] In “On What There Is,” Quine punningly named the problem of “Plato’s beard” for its resistance to this scholastic philosopher’s “razor,” which states that “entities should not be multiplied unnecessarily.”

ANSWER: William of **Ockham**

<Philosophy/Social Science>

20. This author wrote a novel about an elephant that is given to Archduke Maximilian as a wedding present. For 10 points each:

[10] Name this author of *The Elephant's Journey*, who also wrote *Death with Interruptions* and *The Stone Raft*. In a better-known work by this author, the dog of tears helps to protect people who suffer from the title illness.

ANSWER: José **Saramago**

[10] In this Saramago novel, the doctor's wife is the only person not to suffer from the title ailment. This novel begins with a car failing to move when a stop light turns green.

ANSWER: ***Blindness***

[10] For its depiction of an absurd bureaucracy, Saramago's novel *All the Names* has been compared to *The Trial*, a novel by this German-Jewish author from Prague.

ANSWER: Franz **Kafka**

<European Literature>