

Boilermaker Spring Novice

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Packet 5: I don't want to be first in line to see Mrs. Train

TOSSUPS

1. In a song by this group, a choir repeats the verse “hold on; if love is the answer, you’re home.” This group collaborated with Leiji (“lay-jee”) Matsumoto on *Interstella 5555*, an animated film featuring a blue-skinned pop band. This group’s song “Touch” features in a video where a member of this group removes their leather jacket to reveal a switch on their back that activates a (*) self-destruct countdown. This group was sampled in Kanye West’s song “Stronger.” In a song by this group, Pharrell Williams sings that “we’ve come too far to give up who we are.” For 10 points, name this French dance music group behind the songs “Harder, Better, Faster, Stronger” and “Get Lucky,” whose members wore robot helmets.

ANSWER: Daft Punk

<DJ, Pop Culture - Music> [Ed. SB]

2. Poems from this movement were promoted by Jessie Fauset and Alain Locke. A seminal work in this movement is a sonnet based on a firsthand account of the Red Summer which describes being “pressed to the wall, dying, but fighting back!” A poem from this movement describes a man who “slept like a rock or a man that’s dead” in a prominent example of (*) jazz poetry. Poems of this movement were published in *The Crisis*, such as Claude McKay’s “If We Must Die.” A poet from this movement wrote “The Weary Blues” and “The Negro Speaks of Rivers.” For 10 points, name this American cultural movement spearheaded by Black authors such as Langston Hughes.

ANSWER: the Harlem Renaissance [or the New Negro Movement]

<SB, Literature - Poetry> [Ed. PS]

3. A “parking garage” structure is possessed by Terasaki ramps in this organelle. In eukaryotes, signal recognition particles target proteins to this organelle which is also the organelle where the final step of gluconeogenesis occurs. Vesicles secreted by this organelle are coated with COPII (“cop-two”) proteins. Muscle cells contain a (*) “sarcoplasmic” form of this organelle. It’s not the mitochondria, but detoxification most commonly occurs in this organelle. Vesicles from this organelle are transported to the *cis* (“sis”) face of the Golgi apparatus. Membrane-bound ribosomes adhere to this organelle. For 10 points, the nucleus in many cells is surrounded by what organelle with “smooth” and “rough” varieties?

ANSWER: endoplasmic reticulum [or ER; accept smooth ER, SER, rough ER, or RER; accept aforementioned answers with “endoplasmic reticulum” instead of “ER” prompt on sarcoplasmic reticulum or SR]

<DB, Science - Biology> [Ed. JF]

4. One piece in this genre was written for Alessandro Manzoni by Giuseppe Verdi. A bass solo echoes a B-flat major melody played by solo trombone in the *Tuba mirum* movement of another work in this genre. A soprano solo features in the *Pie Jesu* (“*pee-ay ye-soo*”) movement of a Gabriel Fauré (“*ga-breel for-ay*”) piece in this genre in D minor. Poems by Wilfred Owens are set to music in a piece in this genre titled (*) *War* [*this genre*] by Benjamin Britten. That aforementioned Fauré piece in this genre notably omits the *Dies Irae* (“*dee-es ear-ay*”) movement. Franz Süssmayr completed the “Lacrimosa” section of one work in this genre that was left unfinished after Mozart’s death. For 10 points, name this musical setting of the Catholic mass for the dead, whose name comes from the Latin word for “rest.”

ANSWER: **requiem** mass [accept *War Requiem*, prompt on Catholic mass before mentioned] (the first clue refers to the “Libera me” movement of Fauré’s *Requiem*)

<QP, Fine Arts - Classical Music> [Ed. QP]

5. After one location of this type was abandoned, likely under Mpu Sindok, it remained buried in volcanic ash until the 19th century. Feilai Feng, or the “Flying Peak,” which legendarily flew itself to China, is located at one of these places. One of these physical places is arranged according to the “vertical cosmology” in three levels representing the Desire Realm, the Form Realm, and the (*) Formless Realm; that place of this type is Borobudur. The *bhikkus* and *bhikkunis* that constitute the Sangha reside in these places. At one of these places built by Ashoka, a sandstone slab called the Diamond Throne rests beneath a bodhi tree on the site where one figure became enlightened. For 10 points, name these religious buildings where monks seek nirvana.

ANSWER: **Buddhist temples** [or **Buddhist monasteries**, or equivalents, prompt on temples or monasteries or equivalents that don’t mention Buddhism, accept *vihāras*, accept *chaitya-griha*, accept wats]

<QP, Beliefs - Practices> [ed. DC]

6. A period in Brazil’s Old Republic is named for the dairy industry of Minas Gerais (“*mee-nus juh-rice*”) and this good that was dominant in Sao Paulo. In England, places that sold this good for a penny became known as “penny universities” due to the intellectual discussions that often occurred there. According to legend, an Ethiopian goat herder first discovered this commodity after noticing his goats suddenly becoming (*) excited. The port of Mocha was the primary export center of this commodity in the Arabian peninsula. Sufi practitioners consumed a product made from this crop to maintain concentration and alertness during nighttime prayers, similar to its use today. For 10 points, name these caffeinated beans typically brewed into a hot beverage.

ANSWER: **coffee** [accept mocha before read, accept **Coffee** With Milk]

<LM, History - Other History> [Ed. LM]

7. Research by Blackfoot scholar Narcisse Blood suggests that this model was based on its creator’s field work with the Blackfoot nation. The term *metamotivation* is used to describe people at the top of this model, which was later expanded to include *transcendence*. This model prominently uses a phrase coined by Kurt Goldstein, and was developed by studying people its creator called the “master race,” including (*) Eleanor Roosevelt and Albert Einstein. First introduced in *Motivation and Personality*, this model is split vertically into a “growth” section and a “deficiency” section, the latter of which includes “safety” and “belonging.” For 10 points, give this model of human curiosity that is visualized as a pyramid with “self-actualization” near the top.

ANSWER: Maslow’s **hierarchy of needs** [or **Maslow’s hierarchy** of needs, prompt on partial answers]

<PQ, Social Science - Psychology> [Ed. SB]

8. In a critically-derided scene written by this author, marksmen take turns using bullets to drive a painted nail into wood from 100 yards away. A work by this author subtitled “The Inland Sea” chronologically follows a novel in which the protagonist disguises himself as a bear to save Alice. In a prequel by this author, the ex-pirate Floating Tom and Hurry Harry plan to collect as many (*) scalps as they can. *The Pioneers* and *The Prairie* are the last of five historical novels by this author that follow a man of many titles, including “Hawk-eye.” Chingachgook (“ching-gatch-guk”) attends Uncas’s funeral at the end of the fourth book in this author’s *Leatherstocking Tales*. For 10 points, name this author who created Natty Bumppo and wrote *The Last of the Mohicans*.

ANSWER: James Fenimore Cooper (The painted nail scene is ridiculed in Mark Twain’s essay “Fenimore Cooper’s Literary Offenses.”)

<PQ, Literature - Novels> [Ed. SB]

9. Two intertwined hands imitate a Gothic arch in this artist’s stone sculpture *The Cathedral*. This artist insisted that their sculpture of six defeated noblemen should not be displayed on a high pedestal. This sculptor used studies from their *St. John the Baptist Preaching* to create a work depicting a headless, armless body in mid-stride. The Paris Salon nearly (*) rejected a sculpture by this artist due to suspicions that they had cast it from a live model. *The Three Shades* look down from atop a large rectangular sculpture by this artist that contains over 200 figures, including a depiction of Dante devising *The Divine Comedy* while sitting nude on a rock. For 10 points, name this French sculptor whose bronze casts include *The Gates of Hell* and *The Thinker*.

ANSWER: Auguste Rodin [accept François Auguste René Rodin]

<SB, Fine Arts - Painting and Sculpture> [Ed. SB]

10. It’s not Greece, but the highest point in this country is Mount Olympus, found in the Troodos (“troh-ah-das”) mountains. The northern part of this country declared independence in 1983 but is only recognized by one UN member. This country’s flag is one of two that contains a map, and the only one which also depicts an (*) island. Two ethnic groups in this country fought over *taksim*, splitting this country between them, or *enosis*, unification of this country with Greece. A UN Buffer Zone in this country called the Green Line was extended after a 1974 invasion by Turkey pushed its Greek residents south. For 10 points, name this Mediterranean island country governed from Nicosia.

ANSWER: Republic of Cyprus

<VS, The World - Geography> [Ed. QP]

11. This quantity is limited to a “discrimination window” for a given solvent in the leveling effect. An equation to calculate this quantity becomes inaccurate at higher concentrations because it neglects the self-ionization of water. Silver chloride is commonly used in reference electrodes for meters measuring this quantity in soil and water supplies. For a buffer, the acid (*) dissociation constant is used when estimating this quantity with the Henderson–Hasselbach equation. This quantity equals the negative base-10 logarithm of hydrogen ion concentration. Water has a value of seven for pOH and this quantity. For 10 points, name this quantity measured using litmus paper that indicates how basic or acidic a substance is.

ANSWER: pH [or potential hydrogen]

<LM, Science - Chemistry> [Ed. MS]

12. **In the final years of his life, this ex-president was the primary driving force behind the formation of the Smithsonian Institute and spoke against the Mexican-American War. After his presidency, this man and Roger Sherman Baldwin served as defense attorneys in the Amistad Case. This president enacted the first of two laws that the South Carolina legislature declared unconstitutional, sparking his successor's (*) nullification crisis. This president, whose election ended the Era of Good Feelings, signed the Tariff of Abominations into law. In the first "corrupt bargain," this president won the 1824 election over Andrew Jackson. For 10 points, name this president who succeeded James Monroe and was the son of the second president.**

ANSWER: John Quincy Adams [or J.Q. Adams; prompt on Adams; do not accept or prompt on "John Adams"]
<QP, History - American History> [Ed. LM]

HALFTIME

13. **The Theil–Sen estimator is a regression line with slope equal to this quantity for a certain set of lines' slopes. For a random variable X , the expectation of the absolute value of quantity X minus a is minimized when a equals this quantity for X . This quantity can be estimated in linear time with an algorithm named "this quantity" of "this quantities." This quantity is the n over 2 order statistic. This quantity is the most resistant statistic because it is (*) robust against outliers. In a box plot, the line inside of the box shows this quantity. This statistic for a data set equals its fiftieth percentile. For 10 points, name this measure of centrality that serves as a common alternative to the mean and the mode.**

ANSWER: medians [accept median of medians; prompt on "fiftieth percentile" before "fiftieth" is read]
<DB, Science - Math> [Ed. DB]

14. **The first phase of Viking art, the Oseberg style, takes its name from a town that was home to a well-preserved one of these things containing distinctive wooden animal-head posts. An ornate helmet was among the artifacts found in one of these things buried at Sutton Hoo cemetery that is widely believed to house the body of King Raedwald of East Anglia. Ibn Fadlan wrote about a Viking funeral where the body was (*) placed inside one of these things. The *Knarr* was one of these things primarily used for cargo. "Long" types of these things could be built with the clinker method where the edges of hull planks overlap. For 10 points, name these things that the Vikings used to reach the shores of Europe for raiding.**

ANSWER: ship [accept equivalents like boat, accept longboat]
<LM, History - European History> [ed. LM]

15. *Note to players: a description is acceptable.*

Bartle's taxonomy classifies these people into groups such as socializers and explorers. When their incentives conflict with their directives, these people can experience ludonarrative dissonance. These people abandoned their towns and set up checkpoints during the Corrupted Blood incident, which has been used to test epidemiological models. A 2015 study of this group of people found that men with lower (*) skill levels were more likely to harass women. Hostility toward women and queer people among this group culminated in a "-gate"-suffixed harassment campaign aimed at nonmale figures like Zoë Quinn and Anita Sarkeesian. For 10 points, name or describe these people who frequently play *World of Warcraft* or *Halo 3*.

ANSWER: gamers [or people who play video games; accept Gamergate; accept World of Warcraft players and equivalent answers before "*World of Warcraft*"; accept Halo 3 players and equivalent answers before "*Halo 3*", prompt on answers like "people who play games" that don't specify video games]
<LM, Social Science - Other> [Ed. SB]

16. This author wrote that “to live is the rarest thing in the world. Most people exist, that is all,” in his anti-private property essay “The Soul of Man Under Socialism.” A character in one of this author’s novels quips “there is only one thing in the world worse than being talked about, and that is not being talked about.” Lord Darlington tells Mr. Dumby that “we are all in the (*) gutter, but some of us are looking at the stars” in this author’s play *Lady Windermere’s Fan*. This author wrote that “each man kills the thing he loves” in his poem “The Ballad of Reading Goal,” (“redding jail”) which he wrote while imprisoned for homosexuality. The title painting gets uglier as its owner remains youthful and beautiful in, for 10 points, what author’s novel, *The Picture of Dorian Gray*?

ANSWER: Oscar Wilde

<PQ, Literature - Other> [Ed. SB]

17. Note to players: description acceptable.

Before handing over objects that would complete this action, Mictlan gives the task of making music from a shell with no holes. This action ends in failure when performed with mud and wood in book one of the *Popul Vuh*, but is later successfully performed with corn. While fleeing the underworld, **Queztalcoatl** (“ket-zal-co-ah-tel”) trips and breaks a bag of bones to be used for this action, leading to its results coming in different (*) sizes. In book four of the *Popul Vuh*, the results of this action are given wives to keep them content. The Mayan gods performed this action because other animals couldn’t speak to praise them. For 10 points, name or describe this general action taken by Mesoamerican gods that resulted in the existence of you and me.

ANSWER: creating mankind [accept any answers describing making humans, prompt on answers like creating animals, generously prompt on answers like creating the world]

<LM, Beliefs - Stories>

18. In 1986, this city accidentally sabotaged its own infrastructure by releasing over 1.4 million balloons into the air. In a 2010 press conference, **Joakim** (“joe-a-kim”) Noah argued that “I never heard anyone say they were going to [this city] on vacation.” The Presidents of the United States of America covered a song about this city for the intro of *The Drew Carey Show*. This city’s Hope Memorial Bridge contains the Art Deco (*) *Guardians of Traffic*, which inspired a sports team from this city’s renaming in 2021. Todd Rundgren and Tina Turner are among the 2021 inductees to a museum in this city with a giant glass pyramid facade. For 10 points, name this Ohio city home to the Rock and Roll Hall of Fame.

ANSWER: Cleveland

<VS, Pop Culture - Other> [Ed. SB]

19. Nima Arkani–Hamed introduced a geometric structure named for this quantity whose volume describes one form of it in “*N equals four*” supersymmetric Yang–Mills theories. A broadcasting technique has an associated modulation index defined as the ratio between the modulation and carrier forms of this quantity. From the Born rule, one form of this quantity for a state vector squared equals the (*) probability of finding the system in that state. The “peak to peak” form of this quantity measures from the crest to the trough. Unlike FM radio, AM radio is so named because it modulates this property of a wave. For 10 points, name this quantity that represents the change in height of a wave in a single period.

ANSWER: wave amplitude [prompt on magnitude]

<LM, Science - Physics> [Ed. JF]

20. A poet with “bad verses” who was mistakenly believed to have participated in this event is killed by a mob. Before this event a man claims he is “as constant as the Northern Star.” A perpetrator of this event is mocked at its victim’s funeral in a speech that sarcastically calls the perpetrator an (*) “honorable man.” A soothsayer dismissed as a “dreamer” warns of this event, which is also foreshadowed by a woman dreaming of a statue dripping blood. A man calls for “friends” and “countrymen” to “lend me your ears” immediately after this event, whose central figure asks “Et tu, Brute?” For 10 points, give this event that occurred on the Ides of March and was dramatized in a Shakespeare play.

ANSWER: assassination of Julius Caesar [accept any answers clearly referring to the death or killing of Julius Caesar, prompt on partial answers] (All clues taken from Shakespeare’s *Julius Caesar*)
<LM, Literature - Drama> [Ed. PS]

21. Margot Fontayn’s performance of this ballet’s protagonist standardized a raised hand to fifth position during a series of four unsupported *en pointe* (“on point”) attitudes. This ballet’s Garland Waltz precedes its famously difficult Rose Adagio. A wedding at the end of this ballet features appearances from fairytale characters like the White Cat and Puss in Boots. George Bruns arranged and adapted music from this ballet for a (*) Disney movie of the same name, adding lyrics to create the song “Once Upon A Dream.” The evil fairy Carabosse places a curse on this ballet’s protagonist, which is inflicted when she pricks her finger on a spindle wheel. For 10 points, name this Tchaikovsky ballet about Princess Aurora, who is awoken with a kiss.

ANSWER: *The Sleeping Beauty* [or *Spyashchaya krasavitsa*]
<PQ, Fine Arts - Other Auditory> [Ed. QP]

22. The *Financial Times* reported that the decreased public appearance of a billionaire in this country was connected to a controversial speech he gave at a financial markets forum. The Blue Dot Network and B3W seeks to counteract an infrastructure project by this country. In July 2021, one rideshare company based in this country was forced to cease registering new users after its (*) listing on the New York Stock Exchange. This country’s strict market regulations were criticized by an entrepreneur who made his fortune off the online retail website Alibaba. The world’s second largest economy behind the United States is, for 10 points, what country led by Xi Jinping?

ANSWER: People’s Republic of China (Blue Dot Network and B3W are designed to counteract the Belt and Road Initiative.)
<LM, The World - Current Events> [ed. KJ]

23. This thinker argued that the title concept should be extended to everyone except Catholics and atheists in *A Letter Concerning Toleration*. This thinker is the main opponent criticized by George Berkeley in *Three Dialogues between Hylas and Philonous*. This thinker contrasted properties like size and amount with properties like color and taste, which they called (*) primary and secondary qualities respectively. This thinker claimed that all humans are born with a blank slate, or *tabula rasa*, in *An Essay Concerning Human Understanding*. For 10 points, name this English empiricist, who claimed in *Two Treatises of Government* that all have a right to life, liberty, and property.

ANSWER: John Locke
<QP, Social Sciences - Philosophy> [Ed. QP]

24. **The Setif and Guelma massacres were carried out in this modern-day country immediately after the end of World War 2 in Europe. Coffeehouses in this country were the site of numerous bombings and assassinations during the Cafe Wars. Instability from a revolution in this country led to a military coup that brought down the (*) Fourth Republic, prompting the return of Charles De Gaulle. The Evian Accords established this country's independence, triggering a mass exodus of *pied-noirs*. An electric fence called the Morice Line was built to prevent rebel fighters from Tunisia and Morocco from entering this country. For 10 points, name this former French colony in Northwest Africa, the largest country in Africa.**

ANSWER: People's Democratic Republic of Algeria

<QP, History - World History> [Ed. LM]

BONUSES

1. These objects can be detected by observing tidal distortions they cause in their host star or by measuring slight variations in the emissions of pulsars. For 10 points each:

[10e] Name these bodies, which orbit stars outside of the Solar System.

ANSWER: exoplanets [accept extrasolar planets, prompt on planets]

[10m] Another method of detecting exoplanets measures the dip in apparent brightness when they undergo this process of passing between their star and earth.

ANSWER: astronomical transit [accept transit photometry]

[10h] This other method of exoplanet detection can only be used if the exoplanet's orbit is not perpendicular to the earth's line of sight, since it relies on measuring the Doppler shift of the star as it moves slightly in response to the exoplanet's gravity.

ANSWER: radial velocity method [accept wobble method; accept Doppler spectroscopy]

<QP, Science - Other Science (Astronomy)> [Ed. MS]

2. In his essay "A Certain Tendency of the French Cinema," François Truffaut contrasted "stagers," who merely adapt a work, with these people. For 10 points each:

[10m] Give this French-language term used to describe a director who holds outsized creative input on a film.

Truffaut's book-length interview with Alfred Hitchcock contributed to the latter's reputation as this kind of director.

ANSWER: auteur

[10h] This other French-language term is a major component of auteur theory. This term, meaning "placing on stage," describes the general arrangement and composition of objects in front of the camera.

ANSWER: mise-en-scène ("meez-on-sen")

[10e] The French term "cinéma vérité," or truthful cinema, is a near-confrontational style of making films in this genre. Ken Burns' output in this nonfiction genre covers topics like the Vietnam War and the history of baseball.

ANSWER: documentary

<PQ, Fine Arts - Other Visual> [ed. DC]

3. The [Nardal](#) ("nar-dall") sisters laid the foundations for this movement, which focused on creating a "Black consciousness." For 10 points each:

[10h] Name this Francophone postcolonial literary movement whose founders include the

[Martinican](#) ("mar-ti-nee-kan") poet [Aimé Césaire](#) ("em-may say-zair") and the first President of Senegal, [Léopold Senghor](#). ("song-gor").

ANSWER: Négritude

[10m] Négritude gained attention in Europe after Jean-Paul Sartre wrote a preface to one of these works edited by Senghor. These works are collections of poems or other short fiction, usually written by different authors.

ANSWER: anthology

[10e] In his essay *Princes and Powers*, this man criticized the Négritude idea of a universal Black identity. This gay author's other works include *The Fire Next Time* and *Go Tell It On The Mountain*.

ANSWER: James Arthur Baldwin

<PQ, Literature - Short Fiction/Other> [Ed. SB]

4. Karl Mannheim's 1927 essay "The Problem of [these groups]" was the first work to examine them in a sociological model. For 10 points each:

[10e] Name these cohorts of people that, in the West, have taken names like Zoomers and Boomers.

ANSWER: generations

[10m] Sociologist Kathleen Shaputis called Millennials the "Peter Pan Generation" because they delay the "coming of age" type of these events. This three word term refers to ceremonies that initiate people into a new social group, like a Bar Mitzvah.

ANSWER: rite of passage

[10h] In late 2021, over 170 social scientists signed a letter to this "Research Center" to abandon the use of generational labeling. This DC-based pollster calls itself a "fact tank" instead of a "think tank".

ANSWER: Pew Research Center

<PQ, Social Sciences- Other> [ed. RR]

5. This country withdrew its entry in the 1974 Eurovision Song Contest as the funeral of its president Georges Pompidu was being held the same day. For 10 points each:

[10e] Name this country. During the May 68 protests in this country, president Charles De Gaulle secretly fled across the eastern border to Germany.

ANSWER: France [or French Republic or Republique française]

[10m] This country refused to broadcast its entry in the contest, "Si," in case it would influence an upcoming national referendum. In 1978, the Red Brigades kidnapped and murdered its former prime minister Aldo Moro.

ANSWER: Italy [or Italian Republic or Repubblica Italiana]

[10h] This country's entry in the contest signaled the start of a peaceful revolution against its authoritarian regime, in which protestors placed flowers in the muzzles of soldiers' guns, leading it to be dubbed the Carnation Revolution.

ANSWER: Portugal [or Portuguese Republic or República Portuguesa]

<LM, History - European History> [Ed. LM]

6. For 10 points each, answer the following about golden fleeces in Greek mythology.

[10h] To Atreus' surprise, his brother [Thyestes](#) ("thigh-est-eez") was able to present a golden fleece in a contest for the rule of this city. Perseus legendarily founded this city whose kings included Agamemnon.

ANSWER: Mycenae

[10m] Psyche was ordered by Venus to retrieve the golden fleece of some man-eating sheep as part of a series of challenges that would allow her to reunite with this son of Venus.

ANSWER: Cupid [or Eros]

[10e] In order to regain the throne from his uncle Pelias, this man journeyed to [Colchis](#) ("kol-kiss") with the Argonauts to retrieve the golden fleece.

ANSWER: Jason

<MS, Beliefs - Stories> [Ed. LM]

7. The Sheraton Move initiated an ongoing political crisis in this country. For 10 points each:

[10m] The collapse of the Pakatan Harapan coalition in this Southeast Asia country centered around the planned resignation of Prime Minister Mahathir Mohamad, then the oldest Prime Minister in the world.

ANSWER: Malaysia

[10e] Support for Pakatan Harapan waned partly because they abandoned “bumi” policies, which are this type of policy. Harvard University is currently facing a lawsuit claiming that their use of this type of policy is anti-Asian.

ANSWER: affirmative action [accept race-conscious or positive discrimination policies]

[10h] After his resignation, Mahathir sought to form one of these governments in which a legislative coalition of all major political parties is formed. One of these governments currently exists in Myanmar, although it is not recognized by the military junta.

ANSWER: national unity government

<PQ, The World - Current Events> [ed. KJ]

8. The “type-II” variety of these materials can levitate due to flux pinning. For 10 points each:

[10e] Name these materials, which often have to be kept near absolute zero, that exhibit zero electrical resistance.

ANSWER: superconductors

[10h] Upon being cooled below its superconducting transition temperature, a material expels the magnetic field inside of it via an effect named for this scientist. A superconductor containing no magnetic field is in this scientist’s namesake “state.”

ANSWER: (Fritz) Walther Meissner [accept Meissner effect or Meissner state]

[10m] BCS theory describes type-I superconductors as a condensate of Cooper pairs, in which pairs of electrons act as bosons, and thus do not obey this law. This law states that no two fermions in a solid can have identical energy states.

ANSWER: Pauli exclusion principle [prompt on exclusion principle]

<DB, Science - Physics> [Ed. DB]

9. HBO’s content in 2021 seemed to feature a lot of rich people being miserable to each other. For 10 points each:

[10m] In 2021, HBO released season 3 of this show, which follows the financial war between the incredibly-wealthy media tycoon Logan Roy and his children, who are vying for control of his company.

ANSWER: Succession

[10h] In the first season of this anthology, some rich people take a vacation at the title resort in Maui. The opening scene of this show is a flash-forward showing that one of the characters will die by the end of the week.

ANSWER: The White Lotus

[10e] HBO also aired a reboot of this show, in which an anonymous, rumor-spreading blogger causes drama at a pair of preppy high schools. This 2007 show features Blake Lively as Serena van der Woodsen.

ANSWER: Gossip Girl

<PQ, Pop Culture - TV> [Ed. SB]

10. This dynasty was the first to use the Three Departments and Six Ministries system of administration. For 10 points each:

[10m] Name this short-lived Chinese dynasty founded by Emperor Wen which was succeeded by the Tang.

ANSWER: Sui (“sway”) Dynasty

[10h] The Sui Dynasty began the construction of this waterway connecting the Huang He and Huai rivers. Today, it connects Hangzhou and Beijing.

ANSWER: Grand Canal [or the Jing–Hang Grand Canal, or the *Jīng-Háng* Dà Yùnhé]

[10e] The Sui Dynasty fell after failing to conquer Goguryeo, one of the Three Kingdoms of this peninsula east of China, whose capital was Pyongyang.

ANSWER: Korean Peninsula

<QP, History - World History> [Ed. LM]

11. This play flopped on Broadway but became a hit in American high schools for accommodating large casts using small vignettes, only including recurring characters in the Prologue, Interlogue, and Epilogue. For 10 points each. [10h] Name this play. Ginette and Peter move apart and come back together in this play that explores various themes of love in short scenes set in the title fictional New England town.

ANSWER: Almost, Maine

[10e] Some schools banned *Almost, Maine* for two characters with this trait in the scene “They Fell.” Some schools banned Tony Kushner’s *Angels in America* for including characters with this sexuality living during the AIDS crisis.

ANSWER: being gay [or equivalents like **homosexuality**, accept being **bisexual** or **LGBTQIA+**; accept word forms]

[10m] This other play was censored in schools for perceived views on U.S. McCarthyism and general immorality. In this Arthurd Miller play, Giles Corey refuses to confess to his alleged crime and calls out for “more weight!”

ANSWER: The Crucible

<LM, Literature - Drama> [Ed. PS]

12. This work claims that fortune controls half of all human actions, and advises that one should try to minimize its impact as much as possible, beating it and striking it down if necessary. For 10 points each:

[10m] Name this political treatise which is much shorter than its author’s *Discourses on Livy*. This treatise claims that “it is far safer to be feared than loved.”

ANSWER: The Prince [or *Il Principe*, or *De Principatibus*]

[10h] Niccolò Machiavelli repeatedly cited the successes of a member of this family throughout *The Prince*. Machiavelli argued that that member of this family suffered from being too dependent on his father, the Pope.

ANSWER: Borgia [or *Borja*, accept *Cesare* (“che-za-ray”) **Borgia**, or *César Borja*]

[10e] Machiavelli also wrote a treatise with this title, although he downplays the growing importance of firearms in the title concept. Another treatise with this title was more famously written by Sun Tzu two millennia earlier.

ANSWER: The Art of War [accept *Dell'arte della guerra*]

<QP, Social Sciences - Philosophy> [Ed. QP]

13. Floriade is the name of two different festivals held on opposite sides of the world. For 10 points each:

[10e] Both Floriades festivals feature displays of these things, some examples of which include roses and tulips.

ANSWER: flowers

[10m] One Floriade is held every 10 years in this country. The 2022 Floriade will be held in this country’s city of Almere, which sits on land created by one of this country’s many polders.

ANSWER: the Netherlands [or *Nederland*]

[10h] The other Floriade is held every year in this country’s capital, which was designed by Walter and Marion Griffin. One city in this country turned on all its streetlights during John Glenn’s flyby.

ANSWER: Commonwealth of Australia (the city mentioned is Perth)

<QP, The World - Geography> [Ed. QP]

14. While there is no biblical account of such, popular tradition holds that this figure fell three times on the way to Golgotha. For 10 points each:

[10e] Name this figure, whose journey from condemnation by Pontius Pilate to their crucifixion is retraced by pilgrims on the Via Dolorosa.

ANSWER: Jesus Christ [accept either underlined portion, accept equivalents]

[10h] The Via Dolorosa begins at the Roman Antonia Fortress and ends at this church, which encompasses both Golgotha, the site on which Christ was crucified, as well as the empty tomb from which he was resurrected.

ANSWER: Church of the Holy Sepulchre [accept **Church of the Resurrection**, **Church of the Anastasis**, *Kanīsatu al-Oiyāmah*, *Naos tes Anastaseos*, *Surb Harut'yan tachar*, or *Ecclesia Sancti Sepulchri*]

[10m] While not a part of the Via Dolorosa, an olive grove often identified with this Biblical location is often appended to the pilgrimage. Judas betrayed Jesus in this garden the night before his crucifixion.

ANSWER: Gethsemane

<QP, Beliefs - Practices> [ed. DC]

15. For 10 points each, name these poets who accompanied their poems with their own illustrations:

[10h] A poet with this last name drew a woman in waist deep water to accompany their poem “Not Waving But Drowning.” Another poet with this last name wrote *Life on Mars*, and was U.S. Poet Laureate until 2019.

ANSWER: Smith [accept Stevie **Smith**, Florence Margaret **Smith**, or Tracy K. **Smith**]

[10m] This poet “illuminated” their own poems, framing the words with page-filling watercolor paintings, in collections like *Songs of Innocence and Experience*.

ANSWER: William Blake

[10e] This children’s poet accompanied their poems with charming illustrations in the collections *Where The Sidewalk Ends* and *Falling Up*.

ANSWER: Shel Silverstein [or Sheldon Allan **Silverstein**]

<PQ, Literature - Poetry> [Ed. SB]

16. In the first episode of an influential pedagogical program, this person attempted to answer the question “What does music mean?” For 10 points each:

[10h] Name this conductor and composer who popularized the still-running Young People’s Concerts series, which was broadcast primetime from the Lincoln Center in the 1960s.

ANSWER: Leonard Bernstein

[10m] In dissecting the meaning of music, Bernstein used this piece as an example, explaining that even though we associate it with the Wild West, its composer Gioachino Rossini had never been there.

ANSWER: William Tell Overture [accept equivalents like the **overture** or **introduction** or **opening** to **William Tell** or equivalents, prompt on *William Tell*]

[10e] In the last episode, Bernstein had his New York Philharmonic improvise a final movement named “Pluto the Unpredictable” to this orchestral suite by Gustav Holst, who composed it before Pluto was discovered.

ANSWER: The Planets

<PQ, Fine Arts - Classical Music> [Ed. QP]

17. For 10 points each, answer the following about the Sumerian civilization.

[10m] Many Sumerian cities contained these step pyramids, massive temple complexes built on raised platforms. A “Great” one of these structures was located at Ur.

ANSWER: ziggurats [or ziggurat]

[10e] One ruler of Ur, Ur-Nammu, created the oldest surviving one of these systems. The system of *lex talionis*, or “an eye for an eye,” was used in a later one by Hammurabi.

ANSWER: law codes [accept equivalents like code of laws or legal codes, prompt on laws, prompt on codes]

[10h] The Sumerian city-states were conquered in the 24th to 23rd century BCE by this first ruler of the Akkadian Empire. This man’s daughter Enheduanna is the earliest poet known by name.

ANSWER: Sargon of Akkad [or Sargon the Great]

<QP, History - Other History> [Ed. LM]

18. For ten points each, name some uses of blenders in experimental microbiology.

[10e] In a classic home experiment, a kitchen blender can be used to extract this molecule from an onion. This double-stranded nucleic acid has a characteristic white stringy appearance when isolated.

ANSWER: DNA [or deoxyribonucleic acid]

[10h] A blender can be used in genetic mapping experiments by interrupting this process of horizontal gene transfer in bacteria. The blender pulls apart the bridge-like pilus used to transfer genetic material in this process, which requires cell-to-cell contact unlike transformation or transduction.

ANSWER: bacterial conjugation

[10m] In the Hershey-Chase experiment, which proved that DNA is the carrier of genetic information, a blender separated the capsules of these bacteria-infecting viruses from their DNA after they infected an *E. coli* culture.

ANSWER: bacteriphages [accept T2 phages]

<BD, Science - Biology> [Ed. MS]

19. You’ve heard of “making a long story short,” now get ready for “making a short story long!” For 10 points each:

[10e] Orson Scott Card wrote this novel after the success of his short story of the same name. In this sci-fi novel, a young genius excels in war “simulations” preparing humans for a war with the “buggers.”

ANSWER: Ender’s Game

[10m] Virginia Woolf introduced this character in a short story named for her “in Bond Street.” This woman admires Septimus Smith for committing suicide in a novel where she spends most of it planning for a party.

ANSWER: Clarissa Dalloway [accept either underlined portion, accept Mrs. Dalloway]

[10h] This author’s novel *The Optimist’s Daughter* began as a short story published in *The New Yorker*. This Mississippian author’s work portrays the American south in stories like “Why I Live at the P.O.”

ANSWER: Eudora Welty [or Eudora Alice Welty]

<PQ, Literature - Novels> [Ed. SB]

20. This confederacy's oral constitution, known as the Great Law of Peace, was outlined by the Great Peacemaker and his follower [Jigonsasee](#), ([jig-uh-ha-say](#)"), who is called the Mother of Nations by this confederacy. For 10 points each:

[10e] Name this confederacy of Native American tribes centered in upstate New York. Its members included the Mohawk, Oneida, and Seneca.

ANSWER: [Iroquois](#) ("[ear-o-quoy](#)") Confederacy [or [Haudenosaunee](#) Confederacy, or [Iroquois](#) League, accept [Six Nations](#), accept [Five Nations](#)]

[10h] The Great Peacemaker suffered from a severe speech impediment, so he relied on this follower of his, a skilled orator who convinced the tribes to accept the Great Law of Peace.

ANSWER: [Hiawatha](#) [or [Ayenwathaaa](#), or [Aionwatha](#)]

[10m] The Iroquois referred to themselves as the [Haudenosaunee](#), ("[ha-den-oh-saw-nee](#)"), which means "people of" these structures that the Iroquois largely lived in. Multiple families related by their mothers lived in these structures.

ANSWER: [longhouse](#)

<QP, History - American History> [Ed. LM]

21. For 10 points each, answer the following about the 2021 Nobel Prize in Chemistry:

[10e] It was awarded for the development of asymmetric organocatalysis, including using proline, one of these molecules, as a catalyst. These molecules are joined by peptide bonds to form proteins.

ANSWER: [amino acids](#)

[10m] Proline was used to catalyze the reactions asymmetrically, meaning the products have this property. Molecules with this property, often described as "handedness," can be categorized as R or S.

ANSWER: [chirality](#) [or [enantiomers](#); prompt on [isomers](#)]

[10h] One reaction carried out asymmetrically with proline was this one, based on the earlier [Hajos–Parrish](#) ("[high-osh parrish](#)") reaction. This reaction, in which two carbonyls are reacted to form a beta-hydroxy carbonyl, can be followed by an E1cB dehydration to give an alpha-beta unsaturated carbonyl compound in a namesake condensation.

ANSWER: [aldol](#) reaction [or [aldol](#) addition; accept [aldol](#) condensation]

<MS, Science - Chemistry> [Ed. MS]

22. Richard Thaler received the 2017 Nobel Prize in Economics for his contributions to this field. For 10 points each:

[10e] Name this subfield of economics which incorporates aspects of psychology and neuroscience to examine the irrationality of agents making choices.

ANSWER: [behavioral](#) economics

[10m] Behavioral economics may suggest using nudges to alter these patterns. These patterns tend to be amplified in situations where rational decision-making is unlikely and include an "anchoring" type and the framing effect.

ANSWER: cognitive [biases](#) [accept [heuristics](#)]

[10h] In *Thinking, Fast and Slow*, this psychologist describes decisions made via System 1 as more susceptible to cognitive biases. As an example, this psychologist presents framing with regards to loss aversion in prospect theory.

ANSWER: Daniel [Kahneman](#)

<PQ, Social Sciences- Economics> [Ed. KJ]

23. The nuclear bombings of Hiroshima and Nagasaki inspired one artist to create the “disintegration” of this painting. For ten points each:

[10m] Name this painting set on an abstracted Catalonian coastline. The artist was inspired by the image of a Camembert cheese left out in the sun for the designs of several objects in this painting.

ANSWER: The Persistence of Memory (accept **The Disintegration of the Persistence of Memory**)

[10e] *The Disintegration of the Persistence of Memory* is a painting by this Spanish surrealist. As part of his “nuclear mysticism” period, he created the *Living Still Life* to juxtapose quantum physics with the human psyche.

ANSWER: Salvador Dali

[10h] Dali’s “nuclear mysticism” was part of a broader trend of art inspired by the bombings, including this English sculptor’s *Nuclear Energy*. Many of this semi-abstract sculptor’s bulbous *Reclining Figures* can be found in parks.

ANSWER: Henry Spencer Moore

<PQ, Fine Arts- Painting and Sculpture> [ed. DC]

24. Aaron Rodgers and the Green Bay Packers had a very tumultuous year in 2021. For 10 points each:

[10h] Rodgers’ main grievance with the Packers was the team’s decision to draft this player in 2020, whom Rodgers and many others interpreted as an eventual replacement.

ANSWER: Jordan Love [or Jordan Alexander **Love**]

[10m] At the start of the 2021 season, Rodgers threw two interceptions in a ugly 38-to-3 loss against this team. This team’s quarterback, Jameis Winston, threw over a third of his touchdowns that season in that game.

ANSWER: the New Orleans Saints [accept either underlined portion]

[10e] Later in the season, Rodgers drew controversy for using misleading wording to hide this status. Players with this status were required to wear masks on the sidelines and during press conferences, which Rodgers never did.

ANSWER: unvaccinated [accept reasonable equivalents like **unvaxxed** or **antivax**]

<DJ, Pop Culture - Sports> [Ed. SB]