

Boilermaker Spring Novice

Written by: David Bass, Sarah Benner, Veer Bhatt, Daniel Cronin, Ben Dahl, Jim Fan, Ashwin Ganesh, Seth Honnigford, Drew Jensen, Kevin Jiang, Lalit Maharjan, Stan Melkumian, Quynh Phung, Alex Pijanowski, Patrick Quion, Ryan Rosenberg, Matt Schiavone, Payton Schubel, and Vishnu Srinivas

Packet 2: You booked the night train for a reason

TOSSUPS

1. **In one song, this artist cries out “I am an artist; please, God, forgive me!” In the finale of a special by this artist, three insulting voice messages are chopped up to say “we think we know you.” In the finale of another special, this artist whispers “are you feeling nervous? Are you having fun?” after a monologue about having (*) panic attacks while performing on stage. A Marxist sock puppet lectures this artist in their song “How the World Works,” which appears in a comedy special alongside extremely bleak songs like “That Funny Feeling” and “All Eyes On Me.” For 10 points, name this musical comedian who depicted his isolation during the COVID-19 pandemic in the 2021 special *Inside*.**

ANSWER: Bo Burnham [or Robert Pickering Burnham]

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

2. **The Modigliani-Miller Theorem states that in a market with taxes, a company’s value is proportional to the amount of this quantity that it takes on. Irving Fisher theorized that this quantity “deflates” when prices fall and the value of currency increases. In a bondholder haircut, this quantity is exchanged for equity, and the ratio of this quantity to equity is a company’s financial leverage. Liquidation and (*) reorganization are two methods used by bankrupt businesses to discharge this quantity. Moody’s and S&P use a scale with a maximum of AAA to rate an organization’s ability to repay this quantity. For 10 points, name this quantity that is accumulated when one fails to pay back borrowed money.**

ANSWER: debt [prompt on loan; reject “deficit”]

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

3. **Fields of this material at locations like Bambouk (“bahm-book”) and Bure (“boo-ray”) greatly enriched an empire founded by Sundiata Keita. (“soon-jah-tah kay-tah”). A stool made from this material was the ultimate power symbol of the Ashanti Empire. An African ruler brought several tons of this material on his journey to Mecca, and his lavish spending led the (*) price of this material in Cairo to plummet. The British Guinea coin was made from this material, which was largely acquired from a colony in West Africa named for this material in modern-day Ghana. For 10 points, name this precious metal which Mansa Musa traded in the form of dust and bars.**

ANSWER: gold [accept Gold Coast, accept Golden Stool]

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

4. In papermaking, TCF and ECF processes are used to turn wood pulp white without the use of this element. This element collects at the **anode** (“*an-node*”) during the Castner-Kellner process. Ultraviolet light causes atoms of this element to break free from refrigerants such as **R-12**, (“*R-twelve*”), causing an oxygen-producing catalytic cycle. A popular material for pipe construction is a polymer consisting of (*) vinyl groups bonded to this element. Ozone-depleting hydrocarbons containing fluorine and this other halogen are called CFCs. The human stomach contains a strong acid consisting of hydrogen bonded to this element. For 10 points, name this element that is used in bleaches, as well as to sanitize pools.

ANSWER: **chlorine** [accept **Cl**; accept polyvinyl **chloride**; prompt on **chlorofluorocarbons**]

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

5. In a poem addressed to this figure, the speaker calls this figure “slave to fate, chance, kings, and desperate men.” In another poem, the narrator describes how “I had put away / My labor and my leisure too, / For” this figure’s “civility.” In a Samuel Taylor Coleridge poem, this figure plays a game of (*) dice with a pale, female companion to win the souls of the Ancient Mariner’s crew. The speaker of one poem joins this figure on a carriage ride that “held but just ourselves / And Immortality.” One of John Donne’s Holy Sonnets tells this figure to “be not proud.” For 10 points, name this figure that kindly stopped for Emily Dickinson because she could not stop for him.

ANSWER: **Death** [accept “**Death** be not proud”]

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

6. An extremely difficult solo for this instrument that was written for a Paris Conservatory exam opens with the rising phrase “F, A-flat, B-flat.” That piece is Debussy’s *Première rhapsodie*. This instrument plays staccato eighth notes to represent the cat in *Peter and the Wolf*. Orchestral players of this instrument are usually familiar with both its (*) A and B-flat varieties. An Aaron Copland concerto for this instrument was commissioned by Benny Goodman. A jazzy 17-note glissando on this instrument opens George Gershwin’s *Rhapsody in Blue*. For 10 points, name this single-reed woodwind, whose body is straight and usually black.

ANSWER: **clarinet** [prompt on like, **chalumeau**, I guess]

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

7. This scientist posited the existence of genetic material in the book *What is Life?*, which inspired the work of Watson and Crick. Turning points in solutions to this physicist’s equation connect evanescent solutions to oscillatory ones, and can be modeled with the WKB approximation. Stationary states are represented by the (*) time-independent form of this physicist’s equation, which describes the wavefunction of a quantum mechanical system. This physicist critiqued the Copenhagen interpretation with a situation involving a Geiger (“*guy-ger*”) counter that has a chance of releasing poison gas. For 10 points, name this physicist who names a thought experiment involving a simultaneously dead and alive cat.

ANSWER: Erwin (Rudolf Josef Alexander) **Schrödinger** [accept **Schrödinger**’s equation or **Schrodinger**’s cat]

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

8. A character in this play leaves his boots front-center stage before a man enters singing a song about a dog being beaten to death with a ladle. A joke about an Englishman at a brothel in this play is interrupted by a character shouting “STOP IT!” Characters in this play attempt to remove the hat of a slave who, when commanded to think, delivers a speech about “a personal God (*) quaquaquaqu.” After meeting Pozzo and Lucky, two characters in this play consider using a belt to hang themselves from a single large tree. For 10 points, name this play by Samuel Beckett play where Vladimir and Estragon entertain themselves and the title character never arrives.

ANSWER: **Waiting for Godot** [or **En attendant Godot**]

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

9. After serving in this profession, the geologist Harrison Schmidt served as a senator from New Mexico. A person with this profession nicknamed “Dr. Rendezvous” wrote about their struggle with alcoholism in their autobiography *Magnificent Desolation*. Ed White and Roger Chaffee (“chaf-fee”) were two people in this profession killed when an electric spark ignited a fire in a pure oxygen environment. William Anders took the (*) *Earthrise* photograph while acting in this profession. Michael Collins was a member of this profession who participated in an event watched by 93% of Americans that landed at the Sea of Tranquility. For 10 points, name this profession of Buzz Aldrin and Neil Armstrong.

ANSWER: Apollo astronauts

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

10. These people’s knowledge of natural laws and ecological phenomena is known as Qaujimaqatunngit. (“gao-yee-ma-ya-tu-gong-ect”). These people carved thin horizontal slits into driftwood or ivory to make goggles that prevent photokeratitis. A traditional meal of these non-Russian people consists of diced and frozen fat, and is known as (*) muktuk. These people created temporary shelters by arranging blocks in a spiral to create an insulated dome. These people’s traditional practice of hunting seals and whales is threatened by government bans in provinces like Nunavut. For 10 points, name these people indigenous to northern Canada, Greenland, and Alaska.

ANSWER: the Inuit [accept Innu, or Yupik; prompt on Native Americans, First Nations, or general “indigenous people” answers; reject “eskimo”]

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

11. Within Kabbalah, this phenomenon is called *Ohr* and is shaped by vessels called *keilim* to form the ten *sefirot*. (“sfih-rot”). The Father of Greatness rules a “world of” this phenomenon in Manichaeism. (“manna-kee-ism”). A surah named for this phenomenon that instructs women to “guard their private parts” forms the scriptural basis for wearing (*) hijab; that surah named for this phenomenon compares Allah to a glass-enclosed object. In the Sermon on the Mount, Jesus calls his disciples “salt of the earth” and “[this phenomenon] of the world.” In the Jewish creation myth, this is the third thing God creates after the heavens and the earth. For 10 points, in Genesis, God declares “let there be” what phenomenon?

ANSWER: light [accept *an-Nur*]

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

12. David Hume claimed “It would be no crime... to divert the Nile or Danube” in an essay that examined this action. Philipp Mainländer (“mine-lender”) took this action shortly after the publication of his work *The Philosophy of Redemption*. The philosophical pessimist Emil Cioran (“eh-meel cho-ron”) described writing books as postponing this action. This action was the title subject of a seminal work by (*) Émile Durkheim. (“durk-em”). In *The Myth of Sisyphus*, Albert Camus (“al-bare ca-myoo”) called this action the “one truly serious philosophical problem.” The “altruistic” form of this action is exemplified by practices like *seppuku*. For 10 points, name this action that involves taking one’s own life.

ANSWER: suicide [or equivalents like killing oneself; prompt on death or dying or equivalents]

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

HALFTIME

13. **This empire divided its territory into districts called “themes.” A building constructed by this empire contains an imperial door supposedly made of wood from Noah’s ark, as well as a wish-granting “sweating column.” The daughter of a ruler of this empire chronicled its history in the *Alexiad*. A stadium in this empire called the (*) Hippodrome was where the rival blue and green factions watched chariot races. This empire’s *Corpus Juris Civilis* served as the basis for many future law codes in Europe. Greek became the official language of this empire under emperor [Heraclius I](#). (“*her-rack-lee-us the first*”). Justinian the Great was a ruler of, for 10 points, what eastern continuation of the Roman empire?**

ANSWER: [Byzantine](#) Empire [accept [Eastern Roman](#) Empire before “eastern” is read; prompt on [Roman](#) Empire]
<LM, History - European History> [Ed. SB]

14. **Gottfried Helnwein replaced this painting’s characters with 1950s celebrities in a parody called *Boulevard of Broken Dreams*. This painting’s setting was inspired by an intersection on [Greenwich](#) (“*gren-nitch*”) Avenue in New York, and appears to have no entrances or exits. Notes by the artist’s wife suggest that this painting may have been named for one character’s beak-like nose. A sign advertising (*) Phillies cigars for 5 cents appears at the top of this painting, on a building that contains two men in suits and a woman in red under bright fluorescent lighting as a blond-haired man in white stoops behind a counter. For 10 points, name this painting of a lonely, late-night diner by Edward Hopper.**

ANSWER: [Nighthawks](#)
<SB, Fine Arts - Painting and Sculpture> [Ed. SB]

15. **The Frank-Starling Law describes the relationship between this organ’s EDV and SV when all other factors are constant. Hypertrophy in this organ can be diagnosed by an increased QRS amplitude. Action potentials in this organ are conducted most efficiently by [Purkinje](#) (“*purr-kin-jee*”) fibers. A reference value called Wilson’s central terminal is used when monitoring the activity of this organ using (*) 12 leads formed by 10 electrodes. In that technique to monitor this organ, a sine wave readout indicates atrial flutter. Arrhythmia in this organ can be treated by administering a large electric current. For 10 points, name this organ that can be restarted by a defibrillator.**

ANSWER: [heart](#) [prompt on [ventricles](#) with “of what organ?”]
<LM, Science - Biology> [Ed. JF]

16. **Collections from this country include the *Blue Cliff Record* and *The Gateless Gate*. In a festival in this country, people clean the gravesites of their ancestors fifteen days after the spring equinox. This country’s government is accused of harvesting organs from practitioners of this country’s Falun Gong religious movement. Ancient diviners in this country used ox scapulae or turtle shells as (*) oracle bones. In this country, the scholar Laozi explained the concept of “the way” in the Tao Te Ching. The magnetic compass was invented in this country to arrange objects for proper flow of [qi](#) (“*chee*”) according to the principles of [feng shui](#). (“*fung shwee*”). For 10 points, the concept of yin and yang originated in what country?**

ANSWER: People’s Republic of [China](#) [or [Zhōngguó](#)]
<QP, Beliefs - Practices> [Ed. QP]

17. In this essay, the author regards a Frenchman who made a living by pretending to be Asian as “the famous **Psalmnaazor**, (“sall-ma-nah-zer”), a native of the island Formosa.” This essay goes through a rough calculation of the number of “wives who are breeders.” This essay was originally published as a pamphlet that presents its idea on “Preventing the Children of (*) Poor People from Being a Burden to their Parents.” This Juvenalian essay aims to “greatly lessen the number of papists” with a method that suggests “a little pepper or salt.” For 10 points, name this satirical essay by Jonathan Swift that suggests eating Irish babies.

ANSWER: “A **Modest Proposal**”

<PQ, Literature – Short Stories/Other> [Ed. SB]

18. The day after winning election in 2019, this head of state revoked Article 370 of their country’s constitution, transforming a disputed region into federally owned “union territory.” In response to laws proposed by this head of state’s NDA coalition, protestors drove tractors into the capital city. This prime minister signed the Citizenship Amendment Act, which specifically excluded (*) Muslim refugees from a citizenship pathway. In late 2021, this prime minister repealed three controversial pricing laws after a months-long farmers’ protest. To combat black money circulation, this prime minister demonetized all 500 and 1000 rupee banknotes. For 10 points, name this current prime minister of India.

ANSWER: Narendra **Modi** [or Narendra Damodardas **Modi**]

<PQ, The World - Current Events> [Ed. LM]

19. While at the University of Oregon, Carolyn Davidson created one of these artworks symbolizing movement. William Golden took inspiration from Quaker hex signs while creating one of these artworks. A nonsensical leaked PDF emphasizes the “perimeter oscillations” and “gravitational pull” of one of these artworks. Paul Rand developed an “8-bar” work of this type for an (*) organization nicknamed “Big Blue.” One of these artworks, nicknamed the “Peacock,” was created to coincide with RCA’s development of color TV sets. In one of these artworks, two parabolas are joined together in the “Golden Arches” design. For 10 points, name these artworks that serve to identify a company.

ANSWER: corporate **logos** [accept specific logos, namely the Nike **logo**, the CBS Eye **logo**, the Pepsi **logo**, the IBM **logo**, the NBC **logo**, or the McDonald’s **logo**]

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

20. In this novel, a man nicknamed Young Phoenix is killed in a valley after borrowing a cursed horse that had earlier saved its owner by jumping across a river. A man in this novel devises a plan to take a “central and riverlands” province and form a key alliance. That man later cleverly uses straw boats to (*) “borrow” arrows before the Battle of Red Cliffs. In the opening chapter of this novel the Peach Garden oath is sworn by Liu Bei who tries to restore the Han dynasty against the efforts of Cao Cao (“tsao tsao”) and Sun Quan (“soon choon”). For 10 points, name this novel by Luo Guanzhong (“gwan-chung”) that dramatized the namesake historical conflict between Wei, Wu, and Shu.

ANSWER: **Romance of the Three Kingdoms** [or **Sānguó Yǎnyì**]

<BD, Literature - Novels> [Ed. JF]

21. **Broad prosecutor discretion and the lack of juries are proposed factors for this country's over 99% conviction rate. This country's saying "the nail that sticks out gets hammered down" highlights its societal apprehension to differences. This country started "Premium Friday", which allowed workers to occasionally leave earlier, to combat an epidemic of (*) overwork.** This country's "salaryman" culture began after its rapid industrialization following World War II. Young adults in this country who engage in social isolation and reclusivity are known as *hikikomori*. ("hee-kee-ko-mo-ree"). For 10 points, name this country whose prominent cultural exports include manga and anime.

ANSWER: Japan

<LM, Social Science - Other> [ed. RR]

22. **Lindy Chamberlain-Creighton reportedly screamed that a wild animal native to this country ate her baby. This country enacted strict gun control laws following the Port Arthur Massacre. The *Bringing Them Home* report led this country to institute National Sorry Day to commemorate the (*) Stolen Generations.** This country's indigenous people performed at the opening and closing ceremonies for the 2000 Summer Olympics. In 1985, this country returned ownership of a rock formation once named for Sir Henry Ayers to its indigenous people. For 10 points, name this country whose aboriginal population declined after its settlement as a British penal colony.

ANSWER: Commonwealth of Australia

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

23. **This operation can be performed infinitely many times on functions in the class C^∞ . A complex function is holomorphic at a given point if the complex form of this operation can be performed in a neighborhood of that point. By design, this operation cannot be performed on the Weierstrass ("*vire-strass*") function. The entries in **Jacobian** ("*ja-koh-bian*") and Hessian matrices are the results of this operation. This operation is defined as the (*) limit as h goes to zero of " f -of- x plus h minus f -of- x all over h ." Inflection points can be found by applying this operation to a function twice. When performing this operation on a composition of functions, the chain rule applies. For 10 points, name this operation that gives the rate of change of a function.**

ANSWER: differentiation [or derivatives; accept exterior derivatives]

<QP, Science - Math> [Ed. SB]

24. **This character reminds a woman of the "first cardinal rule" to avoid deactivating ammonium thioglycolate ("*thigh-glock-o-late*"). This character makes a revelation at a water fountain after being told "don't stomp your last-season Prada shoes at me." After watching Paulette shy away from her crush who works for UPS, this character teaches her how to do the (*) Bend and Snap. This character responds "what, like it's hard?" after running into their ex-boyfriend, Warner, outside class. In the climax of a film, this character proves Brooke Windham's innocence using her knowledge of perm maintenance. For 10 points, name this Harvard law student and protagonist of *Legally Blonde*.**

ANSWER: Elle Woods [accept either name]

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

BONUSES

1. While many Polynesians converted away from indigenous religions in the 19th century, aspects of religious belief remained ingrained with Polynesian cultures. For 10 points each:

[10e] This term describes objects that are not to be interfered with, or, in some cases, approached at all. In English, this term refers to any practice strongly discouraged by society.

ANSWER: tapu [accept **taboo**; accept kapu]

[10m] This term generically refers to ceremonial dances performed for a wide range of reasons, although it is now most associated with the intimidating dances performed by New Zealand sports teams before matches.

ANSWER: haka

[10h] This four-letter term refers to the spiritual force that permeates the world in Polynesian belief. Certain locations like Mauna Loa and the island of Moloka'i possess this energy, which bestows prestige on individuals.

ANSWER: mana

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

2. This country's nuclear research program during World War II was named after Niels Bohr's housekeeper. For 10 points each:

[10m] Name this Allied Powers country that formed the MAUD Committee and the Tube Alloys project to explore the development of nuclear weapons. Bletchley Park was the site of a large code-breaking operation in this country.

ANSWER: United Kingdom [or **UK**, accept Great **Britain**, accept **England**]

[10h] As part of the MAUD Committee, this university demonstrated nuclear chain reactions in a mixture of uranium oxide and heavy water. A spy ring known as this university's "Five" sent information to the Soviet Union.

ANSWER: University of Cambridge [accept Cambridge Five, accept Cambridge Four which was its name until a fifth spy was discovered]

[10e] In the Quebec Agreement, the UK merged its Tube Alloys project with this American project that produced the world's first atomic bomb. This project was named after a borough of New York City.

ANSWER: Manhattan Project

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

3. Mary Schmich's ("shmeek's") essay "Advice, like youth, probably just wasted on the young" originated the phrase "Do one thing every day that scares you." For 10 points each:

[10h] Schmich's essay, popularly known as "Wear Sunscreen," was written as a hypothetical one of these works. Another famous work of this kind opens with a joke about a fish asking "what the hell is water?"

ANSWER: graduation speech [accept commencement speech; prompt on speech by asking "for what occasion?"]

[10e] In the 90's, Mary Schmich's essay was a viral email forward that falsely attributed it to a speech by this author. Works this author actually did write include *Cat's Cradle* and *Slaughterhouse Five*.

ANSWER: Kurt Vonnegut Jr.

[10m] This author's Kenyon commencement speech was published in a collection titled "This Is Water." They also wrote a novel named for an endlessly-entertaining movie that people watch until they die.

ANSWER: David Foster Wallace [accept **DFW**]

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

4. An early example of this strategy involved asking survey respondents the question “Did you know that Jerry Voorhis (“vore-heez”) is a communist?”. For 10 points each:

[10h] Give this practice in which biased surveys are given out with no intention to analyze responses, only to sway public opinion. This alliterative practice is used to spread political rumors under the guise of opinion collection.

ANSWER: push-polling [prompt on polling]

[10e] The aforementioned push-poll question was used by a campaign for this politician, an early pioneer of the practice. This president was interviewed by David Frost after the Watergate scandal.

ANSWER: Richard Nixon [or Richard Milhous Nixon; prompt on Tricky Dick]

[10m] This other deceptive social engineering practice involves disguising the sponsors of a political movement. The name of this practice is derived from a synthetic material, punning on how it imitates “grassroots” movements.

ANSWER: astroturfing

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

5. In early 2020, researchers at the Technion – Israel Institute of Technology created a biological computer using cells of this bacteria. For 10 points each:

[10e] Name this rod-shaped bacteria that serves as a common model organism in microbiology. Food poisoning from undercooked ground beef is primarily caused by this bacteria.

ANSWER: E. coli [or Escherichia coli]

[10h] The researchers created the computer by restructuring these enzymes in *E. coli*. This class of bioluminescence-producing enzymes, which includes a “firefly” type, is contrasted with photoproteins.

ANSWER: bacterial luciferases [accept firefly luciferase]

[10m] The *E. coli* computer successfully detected nalidixic acid, which is a synthetic quinolone type of these compounds. These compounds are often used in combinations like amoxicillin (“a-mocks-a-sillin”) with potassium clavulanate (“clav-you-la-nate”).

ANSWER: antibiotic [or fluoroquinolone antibiotics; prompt on antimicrobials; prompt on bactericides, bacteriocides, or Bciduals; reject “antiseptics” or “antibodies”]

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

6. At European Renaissance feasts, lavish centerpieces made of this substance were ironically called subtleties. For 10 points each:

[10h] Name this substance that covered Kara Walker’s sculpture *A Subtlety*, an 80-ton sphinx with stereotypically-Black features. Marble cubes represent this substance in the readymade *Why Not Sneeze, Rose Sélavy?* (“say-la-vee”)?

ANSWER: sugar

[10m] Street artists in this country sculpt animals like pigs and roosters using molten sugar. A sculpture from this country called *Can’t Help Myself* features a mechanical arm endlessly sweeping up oozing black fluid.

ANSWER: People’s Republic of China [accept PRC]

[10e] In Mexico, colorful sugar sculptures called calaveras are made to resemble these body parts in celebration of Día de los Muertos.

ANSWER: skulls [prompt on skeleton or bones]

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

7. For 10 points each, answer the following about continent-spanning railroads.

[10h] A proposed southern route for the First Transcontinental Railroad led the U.S. to make this purchase from Mexico.

ANSWER: Gadsden Purchase [accept Treaty of Mesilla or the Sale of Mesilla]

[10m] A political cartoon depicted this British imperialist as a giant holding a telegraph wire, symbolizing their vision to build a trans-African railway linking British colonies from Cape Town to Cairo.

ANSWER: Cecil Rhodes [or Cecil John Rhodes]

[10e] Emperor Alexander III (“the third”) of Russia sponsored the construction of the longest railway line in the world running from Moscow to Vladivostok across this large, remote, and snowy region of Russia.

ANSWER: Siberia [accept Trans-Siberian Railroad]

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

8. At least 65 essays in computer science have titles playing on the title of Edsger Dijkstra’s (“edz-ger dike-stra’s”) essay “[this statement] Considered Harmful.” For 10 points each:

[10m] Name this statement, which Dijkstra described as “an invitation to make a mess of one’s program.” This statement causes the compiler to jump to a designated label.

ANSWER: go to statement [or goto statement]

[10e] Jonathan Amsterdam wrote that this programming language’s “new” keyword is “considered harmful.” This language has a coffee cup as its logo.

ANSWER: Java [reject “JavaScript”]

[10h] Alexander Rush criticized deep learning frameworks with the blog post “[this variable type] Considered Harmful.” A popular open-source machine learning library is named “[this variable type]·Flow.”

ANSWER: tensors [accept TensorFlow]

<LM, Science - Other Science> [Ed. DB]

9. For 10 points each, answer the following about authors active during the Golden Age of Indiana Literature:

[10e] George Ade’s *Fables in Slang* led people to call him this figure “of Indiana.” This Greek storyteller is the attributed origin of tales like “The Fox and the Grapes.”

ANSWER: Aesopos

[10h] Hoosier author Booth Tarkington’s major work from the Golden Age centers on this “magnificent” family, whose heir, George Minafer, has an unnecessary feud with the car manufacturer Eugene Morgan.

ANSWER: the Amberson family [or the Ambersons; accept *The Magnificent Ambersons*]

[10m] Unlike their contemporaries, this author wasn’t well received in Indiana, but they did receive acclaim elsewhere for their urban realist novels *Sister Carrie* and *An American Tragedy*.

ANSWER: Theodore Dreiser

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

10. In late 2021, Major League Baseball issued a player lockout in order to renegotiate the league's collective bargaining agreement. For 10 points each:

[10m] The player lockout was issued by this noted clown and current commissioner of MLB.

ANSWER: Rob Manfred [or Robert D. Manfred, Jr.]

[10e] One of the MLB Players Association's goals in the CBA negotiations was to institute limits on this practice of intentionally losing games to earn higher draft picks.

ANSWER: tanking

[10h] The extremely-delayed CBA negotiations canceled this special draft, in which players not on teams' 40-man rosters who have spent enough time in the minors can be selected and moved to other teams.

ANSWER: the Major League Rule 5 draft

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

11. In December 2021, Elizabeth MacDonough ("mc-don-oh") denied Democrats' attempt to include immigration provisions in President Joe Biden's economic bill. For 10 points each:

[10h] MacDonough currently serves in this position. In this position, she is responsible for advising the Senate on how to apply rules, protocols, and precedents, including reconciliation on budget bills.

ANSWER: Parliamentarian of the United States Senate

[10e] Deciding what falls under "reconciliation" is important because reconciliation bills are immune to this action in the Senate. A 60-vote majority is needed to end this action, in which a Senator endlessly debates a bill.

ANSWER: filibuster

[10m] In January 2022, this current Senate Majority Leader and New York Democrat called a vote to change the rules surrounding the filibuster, although the vote failed.

ANSWER: Chuck Schumer [or Charles Ellis Schumer]

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

12. Léo Delibes's ("lay-o de-leeb's") opera *Lakmé* lay in relative obscurity until its revival in the 1990s after a British Airways commercial featured an adaptation of this song. For 10 points each:

[10h] Name this popular song from Act 1 of *Lakmé*. A soprano and mezzo-soprano feature in this duet about the beauty of the title objects.

ANSWER: "Flower Duet"

[10e] Don José laments his withered love for the title woman in this other opera's aria "The Flower Song." This Bizet ("bee-zay") opera features songs nicknamed "Habanera" and "Toreador Song."

ANSWER: Carmen

[10m] In this composer's opera *Der Rosenkavalier*, Octavian delivers a silver flower to Sophie. This composer also wrote the infamously difficult, erotic "Dance of the Seven Veils" in the opera *Salome*. ("sal-o-may").

ANSWER: Richard (Georg) Strauss [prompt on just Strauss]

<PQ, Fine Arts - Other Auditory> [Ed. QP]

13. For 10 points each, answer the following about glassware used in an organic chemistry lab:

[10e] These glass containers usually have a narrow neck. Commonly-used types of these things include round-bottom ones and ones named for Erlenmeyer. (“*earl-en-myer*”).

ANSWER: flasks [accept **round-bottom flasks** or **Erlenmeyer flasks**]

[10m] A condenser and a fractionating column named for Vigreux (“*vi-grow*”) may be used in this technique, where condensed liquid collects in a receiving flask.

ANSWER: fractional distillation

[10h] This glassware, commonly used in liquid-liquid extractions, allows the lower layer of a phase-separated mixture to be drained through a stopcock. Pressure built up from shaking this glassware can be relieved by venting.

ANSWER: separatory funnel [accept **separation funnel** or **separating funnel**; prompt on **funnel**]

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

14. A politician from this country, Hassan Al-Turabi, was nearly karate-chopped to death by an exiled black belt master. For 10 points each:

[10m] Name this African country once ruled by Omar Al-Bashir. This country’s southern portion gained independence in 2011 following a civil war against the National Islamic Front.

ANSWER: Republic of the Sudan [or North **Sudan**; reject “South Sudan”]

[10h] Al-Bashir is currently being tried for genocide and war crimes during the conflict in this western region of Sudan.

ANSWER: Darfur

[10e] In 2007, this organization and the AU sent a joint peacekeeping mission to stabilize Darfur. (“*dar-fooeer*”). This international organization’s “peacekeepers” wear blue helmets.

ANSWER: United Nations [or the **UN**]

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

15. This poet’s childhood in Chicago inspired their poetry collection *A Street in Bronzeville*. For 10 points each:

[10h] Name this poet who also depicted an “old yellow pair” for whom dinner is “a casual affair” in the poem “The Bean Eaters.”

ANSWER: Gwendolyn (Elizabeth) Brooks

[10m] In this Brooks poem, seven pool players who sit at the Golden Shovel “Lurk late,” “Strike straight,” “Sing sin,” “Thin gin,” “Jazz June,” and “Die soon.”

ANSWER: “We Real Cool”

[10e] Brooks detailed the growth of the title girl in her poetry book *Annie Allen*, whose middle section is titled “the Anniad,” a pun on this Roman poet’s *Aeneid*.

ANSWER: Virgil [or Publius **Vergilius** Maro]

<QP, Literature - Poetry> [Ed. PQ + PS]

16. A 2013 meta-analysis by Arcelus et al. found this disorder to be up to 12 times as common in ballet dancers as in the general population. For 10 points each:

[10e] Name this eating disorder characterized by restrictive eating, low body-weight, and an intense fear of gaining fat.

ANSWER: anorexia nervosa

[10m] A common pharmaceutical treatment for anorexia is fluoxetine, which belongs to this class of drugs. MAOIs and SSRIs are subcategories of this class of drugs.

ANSWER: antidepressants

[10h] Anorexia is considered an example of this type of syndrome, in which specific psychological and physical symptoms only occur within a specific society, such as *susto* in Latin American societies.

ANSWER: culture-bound syndrome [or **culture-bound disorder**]

<PQ, Social Sciences- Psychology> [Ed. RR]

17. The South Philippine Dwarf Kingfisher was photographed for the first time in March 2020. For 10 points each:
[10h] That funny little bird is native to the forests of **Basilan** (“ba-see-lan”) and this second-largest island in the Philippines. This island contains the country’s tallest point, Mount Apo, overlooking **Davao** (“da-vow”) City.

ANSWER: Mindanao

[10m] **Mindanao** (“min-da-now”) is second in size in the Philippines to this island, home to the capital city Manila and the active volcano Mount Pinatubo.

ANSWER: Luzon

[10e] Luzon is home to this large Filipino ethnic group, who share their name with the most commonly spoken language in the Philippines.

ANSWER: Tagalog

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

18. Upon the advent of the **Saoshyant**, (“sao-she-yant”), a river of molten metal will cross the Earth and good will ultimately triumph over evil. For 10 points each:

[10m] That was a description of **Frashokereti**, (“fra-sho-ker-re-tee”), the prophesied end of the world in this ancient Persian religion. This religion’s Ahura Mazda wages a war for humanity against the destructive Angra Mainyu.

ANSWER: Zoroastrianism [or Mazdayasna]

[10e] In contrast to molten metal, an angel shows the speaker of this book “the river of the water of life, as clear as crystal.” This final book of the New Testament relates an apocalyptic vision that came to John of Patmos.

ANSWER: Book of Revelation [or Revelation to John, or Apocalypse of John, reject “Revelations”]

[10h] Events like Frashokereti and the Apocalypse fall under this branch of theology, which concerns attempts to predict and understand the end of the world.

ANSWER: eschatology

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

19. For 10 points each, name some philosophers who commented on the education of women.

[10e] In *Emile*, this thinker claims that women should only be educated for men’s benefit. This thinker also claimed that “man is born free and everywhere he is in chains” in their work *The Social Contract*.

ANSWER: Jean-Jacques Rousseau

[10m] This thinker criticized *Emile* and argued that women should be educated equally to men in *A Vindication of the Rights of Women*.

ANSWER: Mary Wollstonecraft [reject “Mary Wollstonecraft Shelly,” her daughter who wrote *Frankenstein*]

[10h] Inspired by ideas from their wife, this thinker argued for the education and enfranchisement of women in their essay “The Subjection of Women.”

ANSWER: John Stuart Mill

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

20. This experiment observed a peak intensity value at 50 degrees and 54 electronvolts. For 10 points each:

[10h] Name this experiment that confirmed **de Broglie’s** (“de broy’s”) hypothesis that electrons exhibit wave-like behavior by measuring diffraction patterns produced by electrons fired from a tungsten filament at a nickel crystal.

ANSWER: Davisson–Germer experiment

[10m] The intensity peaks observed in the Davisson–Germer experiment agree with this law, which describes the scattering of waves by a crystal lattice with the equation “ $n \lambda = 2d \sin \theta$.”

ANSWER: Bragg’s law [or Bragg’s equation]

[10e] Davisson and Germer detected electrons with a “cup” named for this scientist. Conducting “cages” that block electromagnetic fields are named after this English physicist.

ANSWER: Michael Faraday [accept Faraday cup or Faraday cage]

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

21. For 10 points each, answer the following about Daniel Morgan's unit of elite sharpshooters.

[10e] Morgan's Riflemen served in this war, where their long-range rifles gave them an advantage over the standard muskets used by the British Redcoats. Morgan led the Continental Army to victory in this war's Battle of Cowpens.

ANSWER: American Revolutionary War [or American **Revolutionary War** or **American War of Independence**]

[10h] Morgan's troops were ultimately forced to surrender in the 1775 Battle of Quebec as part of this man's forces from upper Massachusetts. Horatio Gates stripped this officer of his rank following the Battle of Freeman's Farm.

ANSWER: Benedict Arnold

[10m] After his release from captivity, Morgan formed a new unit of riflemen that made their mark in this battle which saw fighting at Freeman's Farm and Bemis Heights. France entered the war following this 1777 battle.

ANSWER: Battle(s) of Saratoga

<LM, History - American History> [ed. LM]

22. CBS airs many of the most popular reality competition shows on television. For 10 points each:

[10e] On this show, contestants are divided into two tribes, where they use natural resources for food and shelter. Players compete for immunity on this show to avoid being voted off the island.

ANSWER: Survivor

[10m] In this other show, contestants compete for the Power of Veto and attempt to become Head of Household while avoiding eviction.

ANSWER: Big Brother [accept *Celebrity Big Brother* or *Big Brother VIP*]

[10h] This TV personality hosts the CBS reality shows *The Amazing Race* and *Tough as Nails*, and had been shortlisted as the host for *Survivor* before Jeff Probst was selected instead.

ANSWER: Phil Keoghan [or Philip John **Keoghan**] (rhymes with "Hogan")

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

23. This author's Pittsburgh Cycle consists of 10 plays that each cover a separate decade of the Black American experience since 1900. For 10 points each:

[10m] Name this playwright. Troy Maxson becomes the first black garbage truck driver in town in this author's play *Fences*.

ANSWER: August Wilson

[10h] This play is the only play in the Pittsburgh Cycle not set in Pittsburgh. After recording this play's title song with this play's title singer, the trumpeter Levee stabs Toledo for stepping on his shoes.

ANSWER: Ma Rainey's Black Bottom (The Pittsburgh Cycle is actually a less formal name for the Century Cycle, explaining the loose adherence to the setting)

[10e] *Ma Rainey's Black Bottom* is instead set in this city. In a musical set in this city, Roxy Hart gets away with murder after her trial and crime is sensationalized by the press.

ANSWER: Chicago, Illinois (The musical is *Chicago*)

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

24. The nursery rhyme “Row, Row, Row, Your Boat” is a round, which is a type of this form sometimes called a “perpetual” or “infinite” one. For 10 points each:

[10e] Name this musical form in which every member of an ensemble plays the same melody, separated from the leader by a set duration. Pachelbel wrote a famous one “in D.”

ANSWER: canon [accept **Canon in D**]

[10m] This composer’s *The Musical Offering* included canons based on a theme given to them by Frederick the Great. Glenn Gould popularized a set of variations by this composer that also contained multiple canons.

ANSWER: Johann Sebastian Bach (the unnamed set of variations is the *Goldberg Variations*)

[10h] Bach’s *The Musical Offering* contains an example of a “crab canon,” which is a canon that has this special quality. A description is acceptable.

ANSWER: it’s palindromic [accept anything indicating it can be played **backwards**]

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