



2023 PACE NSC

Edited by David Bass, Jordan Brownstein, Jaimie Carlson, Ganon Evans, Athena Kern, Joseph Krol,  
Young Lee, Adam Silverman, Chandler West  
Head Editor Ganon Evans

Round 10 - Tossups

1. The longest-lasting one of these objects is located in a fire station in Livermore, California and has been in use since 1901. William Coolidge's extra-ductile version of a key material aided in the production of these objects. The Phoebus cartel consisted of companies who planned to purposefully limit the lifespan of these objects. At the World's Columbian Exhibition, Grover Cleveland activated approximately (\*) 100,000 of these objects that were installed by a man who also invented the railway air brake, George Westinghouse. Carbonized bamboo was used in these objects when they were publicly demonstrated at a Menlo Park lab. For 10 points, name these products popularized by Thomas Edison consisting of a glowing filament in a glass vacuum.

ANSWER: incandescent **lightbulb** [or **electric lightbulb** or **electric lamp**; or **incandescent lamp**; or incandescent **light globe**; prompt on **light** or **lamp** or **bulb**; reject "fluorescent lightbulb"]  
<Lalit Maharjan, History - American - 1865-1945> ~24957~ <Editor: Michael Bentley>

2. A nine-foot tall reproduction of this sculpture dominates the conservatory in Frank Lloyd Wright's David Martin House in Buffalo. A case near this sculpture displays some fingers once belonging to it that Charles Champoiseau ("sharls sham-poh-zoh") had missed when gathering its pieces. A 2014 restoration re-added fragments of a feather to this sculpture's chiton ("kye-ton"). The base of this sculpture is made from Lartos marble and includes a depiction of (\*) oarboxes, a reference to the naval battle it commemorates. The Futurist Manifesto declares that "a racing car... is more beautiful than" this sculpture. This sculpture has long been placed at the top of the Daru staircase at the Louvre and notably lacks a head. For 10 points, name this Hellenistic sculpture of a goddess of victory.

ANSWER: **Nike of Samothrace** [or **Winged Victory**; or **Winged Victory of Samothrace**; prompt on **Nike** or **Victory**]  
<Michael Bentley, Fine Arts - Sculpture> ~25165~ <Editor: Chandler West>

3. In a dream, a character sees several of these objects after being saved by a figure with a deep cut in its hand while stuck in a snowstorm. These objects are produced by a half-blind shoe repairman named Saifo ("SIGH-foh"). A silent orphan appears to smile after watching a character perform a technique with one of these objects in Fremont, California. As he retrieves a blue one of these objects, a character who is sexually assaulted in an (\*) alley by three boys shouts "For you, a thousand times over!" At the end of a 2003 novel titled for these objects, the protagonist rediscovers his love for "fighting" with these objects, which he once did with his childhood friend Hassan. For 10 points, a Khaled Hosseini novel is titled after a "runner" of what toys?

ANSWER: **kites** [accept *The Kite Runner*; accept **kite** fighting; accept **kite** running; prompt on **toys**]  
<Steven Yuan, Literature - World and Miscellaneous> ~25562~ <Editor: Joseph Krol>

4. The friendship between two thinkers from this country is the subject of Dennis Rasmussen's book *The Infidel and the Professor*. Enlightenment-era thinkers from this country often met at the Select Society and the Poker Club. The founder of this country's school of "common sense realism" argued against his countryman's theory that "constant conjunction" creates our notion of cause and effect. In a dialogue from this country, the skeptic (\*) Philo criticizes arguments for the existence of God. In this country, the author of *The Theory of Moral Sentiments* wrote a eulogy for a philosopher who critiqued his own empiricism with the example of a missing shade of blue. For 10 points, name this country home to best friends David Hume and Adam Smith.

ANSWER: Scotland [or Alba; accept the Scottish Enlightenment; accept the Scottish school of common sense or Scottish common sense realism; prompt on United Kingdom or Great Britain]  
<Quynh Phung, RMP - Philosophy> ~24863~ <Editor: Jordan Brownstein>

5. This quantity equals the square root of one plus the electric susceptibility by the Ewald–Oseen extinction theorem. Cauchy expressed this quantity as a Laurent series with only even non-positive terms in an equation that inspired a formula for the square of this quantity, the Sellmeier equation. Values of this quantity at levels labeled *C*, *d*, and *F* are used to calculate a substance's (\*) Abbe number. This quantity is anisotropic and polarization-sensitive in birefringent materials. The product of this quantity in a medium and the sine of the angle of incidence is constant across a boundary per Snell's law. For 10 points, name this dimensionless optical quantity, the ratio of the speed of light in two media.

ANSWER: index of refraction [or refractive index; prompt on *n*]  
<Benjamin Chapman, Science - Physics> ~25896~ <Editor: David Bass>

6. A character who delivers butter to one of these locations chokes on a turkey heart intended to make him end an affair with Lulu. Robert Johnson's magic guitar inspires three boys to create a band in a novel titled for one of these locations' "Blues." A comic artist with hydrocephalus who was born at one of these locations plays basketball for Reardan. June freezes to death while walking towards one of these locations in Louise Erdrich's *Love Medicine*. An author who wrote an (\*) *Absolutely True Diary* about a boy in one of these locations near Spokane describes life there in the collection *The Lone Ranger and Tonto Fistfight in Heaven*. Many stories by Sherman Alexie take place at, for 10 points, what locations where Ojibwe or Chippewa people may live?

ANSWER: Native American reservations [or Indian reservations; or the rez; or the Spokane Indian Reservation; or the Turtle Mountain Indian Reservation; accept Reservation Blues]  
<Ganon Evans, Literature - American - Misc> ~25901~ <Editor: Chandler West>

7. *Description acceptable*. A colonial power cracked down on supporters of this cause in Operation Agatha. Supporters of this cause piloted a ship whose attempts to contravene the 1939 White Paper are depicted in a Leon Uris novel. A paramilitary group founded to fight for this cause, the "Stern Gang," assassinated the Swedish diplomat Folke Bernadotte. The British government's (\*) support for this cause contradicted the earlier McMahon–Hussein Correspondence, and was announced in a 1917 letter to Lionel Walter Rothschild. A group supporting this cause, Irgun, bombed the King David Hotel. For 10 points, name this cause backed by the Balfour Declaration, which was realized with a 1948 Declaration of Independence proclaimed by David Ben-Gurion.

ANSWER: the creation of the state of Israel [accept Zionism; accept answers like creating a Jewish state or the Partition of Palestine or independence of Israel; prompt on aliyah or answers like migration to Israel]  
(The Leon Uris novel is *Exodus*.)

<Michael Bentley, History - World - Middle Eastern> ~25056~ <Editor: Jordan Brownstein>

**8. A celebrated three-volume 1952 anthology album titled for this type of music was compiled by Harry Smith and released on a Moe Asch record label named for this type of music. A Library of Congress center named for this kind of music is one of many collections of recordings made by Alan Lomax, including an interview with a musician whose son is named Arlo. At a 1965 festival named for this type of music, an artist controversially performed the song “Maggie’s Farm” using (\*) electric guitars. The first year of a Berkeley festival named for this type of music featured a man who sometimes performed with the phrase “This machine kills fascists” on his instrument, Woody Guthrie. For 10 points, name this type of traditional music whose “revival” in the 1950s and 60s included Bob Dylan.**

ANSWER: **folk** music [accept **folk** rock or traditional **folk** music or Anthology of American **Folk** Music or **Folkways** or **folk** revival; reject “rock”]

<Michael Bentley, Fine Arts - Miscellaneous> ~25374~ <Editor: Young Lee>

**9. This process is the most common response regulated by the effector in a bacterial two-component system. Helix-turn-helix and leucine zipper domains are found in allosteric proteins like CAP (“cap”) that regulate this process. Biologists use arabinose (“uh-RAH-bin-ose”) and IPTG to activate this process in bacteria. An attenuator shuts off this process when tryptophan levels are high in a common example of negative regulation. This process begins at the +1 (“plus one”) position after (\*) sigma factors bind to the -10 (“minus ten”) and -35 (“minus thirty-five”) sites, then proceeds downstream. This process is blocked when the *lac* repressor is bound to its operator. This process is initiated at a promoter when RNA polymerase binds to DNA. For 10 points, name this first step of gene expression that precedes translation.**

ANSWER: **transcription** [or **TX**; prompt on gene expression until it is read; prompt on RNA synthesis; prompt on DNA binding until it is read; prompt on protein synthesis or central dogma; reject “translation”]

<Adam Silverman, Science - Biology> ~25155~ <Editor: Adam Silverman>

**10. One figure is unable to remember how to use one of these objects when a city is sinking, causing him to return it by dropping it into the sea. One figure crashes the wedding party of a hero who broke one of these objects and challenges that deity to lift one of these objects. Shiva uses Mount Mandara as one of these objects with the Earth as his chariot to destroy Tripura. After the sun clears, an astra focused through one of these objects decapitates Jayadratha. Karna learns to use one of these objects created by (\*) Vishvakarma, which is used to fight kshatriyas (“KSHAT-ree-yas”). Pinaka and Sharanga are rival examples of these weapons, one of which named Vijaya was wielded by Indra. One of these weapons, Gandiva, was wielded by a Pandava mentored by the charioteer Krishna. Arjuna wields, for 10 points, what stringed weapon?**

ANSWER: **bows** [accept **bow** and arrows; prompt on arrows with “What other weapon is used in tandem?”]

<Ganon Evans, RMP - World Mythology> ~25399~ <Editor: Jaimie Carlson>

**11. In a story by an author with this last name, a professor finds the inscription “Fur Fla Fle Bis” on an ancient artifact which summons an apparition made of bedsheets. Another author with this surname wrote about Spencer Brydon revisiting his childhood home. The story “Oh, Whistle, and I’ll Come to You, My Lad” was written by an author with the initials M.R. and this last name. In a novella by an author with this last name who wrote “The Jolly Corner,” the narrator is disbelieved by the housekeeper Mrs. Grose, and finds out a boy was (\*) expelled from school. In a novel by an author with this last name, a redheaded man is seen in a tower at Bly, and Miles yells “Peter Quint—you devil!” before dying in his governess’ arms. For 10 points, give the last name of this author of *The Turn of the Screw*.**

ANSWER: **James** [accept Henry **James** or M. R. **James** or Montague Rhodes **James**]

<Jaimie Carlson, Literature - British - Short Fiction> ~25794~ <Editor: Jaimie Carlson>

**12. George Psalmanazar (“SAHL-muh-nez-ARE”) created a fake language for this territory and wrote a book claiming its native people sacrificed 18,000 boys a year. The merchant Hamada Yahei held Pieter Nuyts (“newts”) hostage at knife point in this territory. From 1862, a British consulate in Fort Santo Domingo in a Treaty Port in this territory supervised its large tea export market. General (\*) Koxinga (“coke-SING-ya”) established a dynasty in this territory after successfully besieging Fort Zeelandia. The entirety of this territory and the Penghu islands were ceded to Japan by the Treaty of Shi-mo-no-se-ki. Under European rule, this island was known by the Portuguese word for “beautiful,” Formosa. For 10 points, the Kuomintang under Chiang Kai-shek fled to what island following the Chinese Civil War?**

ANSWER: **Taiwan** [or **T’ai-nan**; accept **Formosa** before read; accept answers like South **Taiwan** or West **Taiwan**; prompt on China or Republic of China or ROC; reject “PRC” or “People’s Republic of China” or “Chinese Taipei”]

<Lalit Maharjan, History - Cross, Historiography, and Miscellaneous> ~25713~ <Editor: Michael Bentley>

**13. Static light scattering indicates this quantity for biomacromolecules. After trypsinization, proteins are sequenced by measuring this quantity for their trypsinized peptides to four decimal place precision. This property of a protein is estimated from a Coomassie-stained ladder with bands at 25, 37, 50, and 150 of this quantity’s standard units. In proteomics, this quantity is measured twice in tandem: once after MALDI (“MAUL-dee”) or ESI (“E-S-I”), and then again on (\*) fragments of the molecular ion. In SDS-PAGE (“S-D-S page”), proteins with higher values of this quantity migrate slower through a gel. Molecules are identified by measuring the ratio of this quantity to charge in a type of spectrometry named for it. For 10 points, name this quantity that is measured for macromolecules in daltons or grams.**

ANSWER: **mass** [or molar **mass**; or molecular **weight**; accept **mass**-to-charge ratio or **m**-over-**z**; prompt on length or size]

<Adam Silverman, Science - Chemistry> ~25277~ <Editor: Adam Silverman>

**14. The “hymn” melody of a tone poem by this composer was adapted into “Be Still My Soul.” A violin concerto by this composer opens with the soloist playing (read slowly) “G [pause], short A, down to D” over a shimmering D minor string texture and unusually has a cadenza during the development section. As part of his incidental music for his brother-in-law’s play “Death”, this composer wrote the (\*) *Valse triste*. This composer used a solo English horn to depict the title bird in the underworld in another of his tone poems. Fake names like “A Scandinavian Choral March” were used by this composer as the title of a tone poem that protested Russian censorship. For 10 points, name this composer of *The Swan of Tuonela* and *Finlandia*.**

ANSWER: Jean **Sibelius** [or Johan Julius Christian **Sibelius**]

<Benjamin Chapman, Fine Arts - Music - Romantic> ~25733~ <Editor: Young Lee>

**15. This figure delivered the Sermon of Fadak, which chastised Abu Bakr for unjustly taking some inheritance. This person’s spouse sold a shield to pay for a *mahr*, or bridal gift. After marriage, this person lived in poverty and was taught a namesake one hundred *tasbeeh* to cope with their struggles. This figure is known by an epithet meaning “the radiant,” al-Zahra. One of this figure’s sons was the most famous (\*) martyr of the Battle of Karbala. This daughter of Khadija was the mother of the second and third Shi’a imams and the wife of the first. An Ismaili Shi’a caliphate with a long-time capital in Cairo was named for this woman. For 10 points, name this favorite daughter of the Prophet Muhammad, who married Ali.**

ANSWER: **Fatima** bint Muhammad [accept **Fatima** al-Zahra]

<Athena Kern, RMP - Islam> ~25927~ <Editor: Athena Kern>

**16. A method named for Welch and this letter approximates solutions to the Behrens–Fisher problem. A dimension reduction method often used to visualize genomic data is named "[this letter]-SNE ("snee")." The coefficient of determination equals the complement of the ratio of the residual sum of squares to a quantity denoted "[this letter] SS." A (\*) distribution named for this letter converges to a standard normal distribution as degrees of freedom tend towards infinity. When sample size is small or variance is unknown, a statistic denoted with this letter is used instead of the z-score in a namesake test. For 10 points, give this letter that names "Student's" distribution, which is like the normal distribution, but with heavier tails.**

ANSWER: t [accept Welch's t-test or t-SNE or TSS or Student's t-test or Student's t-distribution or t-statistic]  
<David Bass, Science - Math> ~26251~ <Editor: David Bass>

**17. A book protesting toxic examples of this material by Dr. Robert Kedzie was scanned by the NLM under a fume hood. Kutol's product for cleaning coal residue from this material was reworked into Play-Doh. A fruit trellis inspired the first pattern for this material created by William Morris as part of the Arts and Crafts movement. The Scheele's Green pigment used in this material in Longwood House on St. Helena possibly led to (\*) Napoleon Bonaparte's death from arsenic poisoning. In a short story, the doctor husband of a woman faints upon seeing her tear up this material that she believes contains other trapped women. For 10 points, Charlotte Perkins Gilman wrote about a "yellow" kind of what decorative material?**

ANSWER: wallpaper [accept "The Yellow Wallpaper"; prompt on paper; reject "paint"]  
<Lalit Maharjan, Other - Other Academic and General Knowledge> ~24789~ <Editor: Ganon Evans>

**18. The Leechbook of Bald records this man's correspondence with Elias, patriarch of Jerusalem. A now-forgotten 18th-century masque about this man popularized the song "Rule, Britannia!" Modern scholars have challenged the originality of a type of defensive structure supposedly invented by this ruler called a burh. This monarch baptized the enemy commander after successfully besieging the fort of Chippenham. This monarch's mania for books is related in a "Life" by (\*) Asser. A law code named for this monarch incorporated an earlier code from Offa of Mercia and shares textual elements with the Treaty of Wedmore he negotiated. This monarch defeated Guthrum the Old, a Viking ruler, at the Battle of Edington. For 10 points, name this "Great" king of Wessex.**

ANSWER: Alfred the Great  
<Michael Bentley, History - European - Middle Ages> ~24739~ <Editor: Michael Bentley>

**19. In this province, Shannen Koostachin's death prompted Charlie Angus to support Have a Heart Day in protest for better living conditions in Attawapiskat. The oldest operated canal in North America is this province's Rideau Canal. The name of this province's capital may derive from the Wyandot term for "plenty," referring to good fishing around Lake (\*) Simcoe. The southern end of this province's Georgian Bay borders part of its Golden Horseshoe megalopolis. This province's city of Nipigon is north of the Isle Royale. The Burj Khalifa surpassed the CN Tower in this province's capital as the tallest building in the world. The Ambassador Bridge connects this province with Michigan. For 10 points, name this most populous province of Canada.**

ANSWER: Ontario [accept ON]  
<Andrew McCowan, Geography - World> ~25583~ <Editor: Ganon Evans>

**20. A character in this novel is said to have read this novel in a 1952 essay titled for the “Partial Magic” in it. In this novel, a servant dressed as Merlin tells a character to whip himself at the behest of two aristocrats. This novel’s second section, which was written a decade after its first section to counter a spurious “Second Part,” describes the “Third Sally.” This novel is supposedly based on an Arabic manuscript by (\*) Cide Hamete Benengeli (“SEE-day hah-MAY-tay ben-en-GEH-lee”). This novel’s protagonist fights the Knight of the White Moon after a companion rides the donkey Dapple while searching for Dulcinea del Toboso (“DOOL-see-NAY-ah del toh-BOH-soh”). For 10 points, Sancho Panza accompanies the title character of what novel by Miguel de Cervantes (“mee-GHEL day sair-VAN-tez”)?**

ANSWER: **Don Quixote** [or *The Ingenious Gentleman Don Quixote of La Mancha*; or *El ingenioso hidalgo don Quijote de la Mancha*; accept Part 2 of **Don Quixote**; prompt on “Partial Magic in the Quixote”] (“Partial Magic in the Quixote” is by Jorge Luis Borges.)

<Joseph Krol, Literature - European - Long Fiction> ~25038~ <Editor: Joseph Krol>

**21. Women in this country’s 4B movement abstain from dating, childbirth, and heterosexual marriage. In 2022, this country's economy was threatened by a regional governor's refusal to fund a bond for a failing Legoland theme park. Spy cameras in this country called *molka* are investigated by its Ministry on Gender Inequality, which its current President ran on dissolving. In 2022, this country again recorded the world’s lowest (\*) fertility rate. This country’s policy of mandatory military service has caused trouble for Big Hit, a company at the forefront of its *hallyu* soft-power initiative. For 10 points, name this Asian country led by Yoon Suk-Yeol, whose pop group Omega X has raised awareness of abuses in its K-pop industry.**

ANSWER: **South Korea** [or **Republic of Korea**; or **ROK**; prompt on Korea]

<Michael Bentley, Current Events - World> ~25357~ <Editor: Ganon Evans>

## NSC 2023 - Round 10 - Bonuses

1. Beds are a type of these structures that are separated by bedding planes. For 10 points each:

[10m] Geological folds arise from the bending of series of these structures. The law of superposition gives that, in the absence of deformation, these layers are in order by their age.

ANSWER: **strata** [or **stratum**]

[10e] Many folds consist of deformed strata of this class of rocks that include chalk and sandstone.

ANSWER: **sedimentary** rocks

[10h] This type of fold is convex down and features the older strata nearer to its center. Petroleum is often found in “structural traps” resulting from natural cavities that can form under these folds.

ANSWER: **anticlines** [prompt on **upfolds**]

<Benjamin Chapman, Science - Earth> ~21096~ <Editor: David Bass>

2. Answer the following about the use of colophons in Chinese art, for 10 points each.

[10m] Colophons, a type of text commentary on a painting, were often attached as sheets of paper to these works. These works were often displayed on a table and are generally longer than ones that hang from a wall.

ANSWER: **handscrolls** [or **shǒujuàn**; prompt on **scrolls**; do not accept “hanging scrolls”]

[10e] Colophons might contain many of these imprints to assert pride in ownership. Many Asian countries still use these imprints to authenticate official documents rather than signatures.

ANSWER: **seals** [accept **chops** or **stamps**; or **yìn**; or **yìnzhāng**; or **yìnjiàn**]

[10h] A colophon describes Guǎn Dàoshēng, a master artist from this dynasty, painting a grove from a boat. *Sǎnqǔ* (“san-TS’UU”) poetry and *zájù* (“za-J’YUU”) opera reached peak popularity during this dynasty in which the Phagspa script developed.

ANSWER: **Yuan** dynasty [accept Great **Yuan**; prompt on **Mongol**]

<Michael Bentley, Other - Other Academic and General Knowledge> ~18729~ <Editor: Michael Bentley>

3. In this place, hair that “yield[s] with coy submission” is contrasted with a “forelock manly hung.” For 10 points each:

[10h] Name this place. In a 1667 poem, two characters leave this place “with wand’ring steps and slow” after being visited by a figure disguised as a toad.

ANSWER: The **Garden** of **Eden** [accept either underlined portion; or **Paradise**; prompt on **Earth**; do not accept or prompt on “heaven”]

[10m] Eden is contrasted with this “high capital of Satan and his peers.” At a lake of fire near this place, Satan claims it is better to reign in Hell, than serve in Heaven.”

ANSWER: **Pandemonium**

[10e] This poet recounted the expulsion of Adam and Eve from the Garden of Eden in *Paradise Lost*.

ANSWER: John **Milton**

<Yingzhi Nyang, Literature - British - Poetry> ~20910~ <Editor: Jaimie Carlson>

4. In one use of this technique in *2001: A Space Odyssey*, an ape throws a bone in the air immediately before a satellite appears on screen. For 10 points each:

[10h] Name this type of edit in which the composition and elements of one scene are used to cut to a visually and often thematically similar scene.

ANSWER: **match** cut

[10e] *2001: A Space Odyssey* is a film by this director, who also directed *The Shining*.

ANSWER: Stanley **Kubrick**

[10m] A match cut is used to cut from a shot of one of these body parts to a shot of the moon in a film by Luis Buñuel and Salvador Dalí. Metal clamps are placed around these body parts on Alex in a notable scene in Kubrick's *A Clockwork Orange*.

ANSWER: **eyes** [accept **eyelids** or **eyeballs**]

<Michael Bentley, Fine Arts - Film> ~18540~ <Editor: Michael Bentley>

5. This country's town of Kalgoorlie was the rare mining town "where the streets had indeed been paved with gold" after someone came up with a way to make gold from the waste product calaverite. For 10 points each:

[10m] Name this modern-day country where gold miners staged the Eureka Rebellion in the 1850s.

ANSWER: **Australia** [or Commonwealth of **Australia**]

[10e] The Eureka miners swore allegiance to one of these objects with a Southern Cross on it. The modern Australian one of these objects has both a Southern Cross and a Union Jack.

ANSWER: a **flag** [accept **banner** or **ensign**]

[10h] In 1852, "Bully" Forbes sailed from England to Australia in just 74 days on one of these ships. These sailing vessels, sometimes named for Baltimore, were originally built for the tea trade in China.

ANSWER: **clippers** [or **clipper** ships; accept Baltimore **clippers** or Yankee **clippers**]

<Michael Bentley, History - Cross, Historiography, and Miscellaneous> ~20054~ <Editor: Michael Bentley>

6. Beth Shapiro's 2015 "how-to" book argues that this genetic engineering project could make Siberia more habitable. For 10 points each:

[10h] Describe this primary project undertaken by Colossal Biosciences, a spin-off from George Church's lab.

ANSWER: **de-extinction** of the woolly **mammoth** [accept equivalents that mention using genetic **cloning** technology to bring back the woolly **mammoth**, like **revival** of the woolly **mammoth** or **bringing back** the woolly **mammoth**; accept "*Mammuthus primigenius*" instead of "**mammoth**"; accept *How to Clone a Mammoth*; prompt on answers that mention just the action with "Of what animal?"]

[10e] *How to Clone a Mammoth* describes how mammoth-induced grass growth could transform regions of Siberia into this biome. It appears north of the taiga belt in coastal regions of the Arctic and is characterized by an abundance of short plants.

ANSWER: **tundra**

[10m] Changing the biome of their ecosystem would mean that mammoths have this role, exemplified by keystone species like beavers, which alter their environments via niche construction.

ANSWER: ecosystem **engineers**

<Adam Silverman, Science - Engineering and Miscellaneous> ~20445~ <Editor: David Bass>



7. The speaker of a poem by this author requests “Jesus Saviour Pilot Me / Over Life’s Tempestuous Sea.” For 10 points each:

[10h] Name this first African American to be US Poet Laureate. He wrote the poems “Those Winter Sundays” and “Middle Passage.”

ANSWER: Robert **Hayden**

[10e] Hayden wrote a poem framed as “A Letter from [this author],” who is considered the first African American to publish a poetry book. This author claimed “‘Twas mercy brought me from my Pagan land” in “On Being Brought from Africa to America.”

ANSWER: Phyllis **Wheatley** [or Phillis **Wheatly** Peters]

[10m] A Hayden poem in this genre, typically written in AABA or ABAB quatrains and set to music, is addressed to Nat Turner. Another poem in this form proclaims “each man kills the thing he loves.”

ANSWER: **ballads** [accept “The **Ballad** of Reading Gaol”; or “The **Ballad** of Nat Turner”]

<Ganon Evans, Literature - American - Poetry> ~21077~ <Editor: Chandler West>

8. In a paper titled for this group’s “Obituary,” Rudolf Simek argues that they were just an alliterative poetic device, though the author of *The Cowboy Hávamál*, Jackson Crawford, disputes this. For 10 points each:

[10h] Name this group of Norse gods who received two men as a gift, but decapitated one after the other couldn’t make any decisions without him.

ANSWER: **Vanir** [or **Vena**; or **Wena**]

[10m] Along with the indecisive Hœnir, this wise man was given to the Vanir as a hostage in the Aesir-Vanir war in exchange for Kvasir. Odin later embalmed his head with herbs.

ANSWER: **Mimir** [or **Mim**]

[10e] Like many scholars, Leszek P. Słupecki (“swu-pets-ki”) rejects Simek’s claim, though he believes that this Vanir twin brother of Freya is actually an Aesir.

ANSWER: **Freyr** [or **Frey**]

<Lalit Maharjan, RMP - World Mythology> ~20328~ <Editor: Jaimie Carlson>

9. A book by Eugen Weber explores how the rural population of this country was incorporated into a modern nation between 1870 and 1914. For 10 points each:

[10m] Name this country whose countryside could be explored in the early 20th century through maps published by a tire company. That same company from this country issued stars to restaurants.

ANSWER: **France** (The company is Michelin.)

[10e] Weber documented how most of France rarely drank this beverage until the 20th century. An aphid called the grape phylloxera devastated French production of this beverage in the 19th century.

ANSWER: red **wine** [prompt on alcohol]

[10h] Weber credits this practice with homogenizing French wine tastes. France pioneered the modern form of this practice with one that took place *en masse* in 1793.

ANSWER: mass **conscription** [or mandatory **military service**; or national **conscription** or **military levy**; or military **draft**; prompt on levy or levee]

<Michael Bentley, History - European - 1500-1900> ~20471~ <Editor: Michael Bentley>

10. In March 2023, Australian petrels became the first animals known to suffer fibrosis caused by these materials. For 10 points each:

[10m] Name these ubiquitous water pollutants. These organic particles are shorter than five millimeters long and are shed from nylon or polyester textiles.

ANSWER: **microplastics** [or plastic **microbeads**; or **microfibers**; prompt on **plastics**]

[10e] Plasticosis in birds worries scientists who study the baleen type of these marine mammals, which are also at extreme risk due to plastic pollution.

ANSWER: baleen **whales**

[10h] Thankfully, microplastics move slower between trophic levels than this textbook example of a bioaccumulating organic toxin. This one-carbon compound marched straight up the food chain from plankton to shellfish to tuna to humans in the 1956 outbreak of Minamata disease.

ANSWER: **methylmercury** [or **CH<sub>3</sub>Hg<sup>+</sup>**; reject “mercury”]

<Ganon Evans, Science - Biology> ~20530~ <Editor: Adam Silverman>

11. The word “pants” derives from the tight red pants worn by Pantalone (“PAN-tah-LOH-nay”) in performances of this theatrical form. For 10 points each:

[10m] Name this traditional Italian theatrical form whose other stock characters include the Doctor and Harlequin.

ANSWER: **commedia dell’arte** (“koh-MAY-dee-ah dell-AR-tay”) [prompt on Italian **comedy**]

[10e] The stock characters of *commedia dell’arte* were often identified by their use of these objects. Examples of these objects showing a smile and a frown together symbolize theater.

ANSWER: theatrical **masks** [or **maschere** or **maschera**]

[10h] This author defended *commedia dell’arte* masks in his article “Hands off the Mask!” In a 1970 play by this Italian author, the Maniac disrupts Inspector Bertozzo’s (“bear-TOTS-oh’s”) investigations of the title character’s death by defenestration.

ANSWER: Dario **Fo** [or Dario Luigi Angelo **Fo**] (The play is *Accidental Death of an Anarchist*.)

<Joseph Krol, Literature - European - Drama> ~20078~ <Editor: Joseph Krol>

12. This technology is employed by startup Charm Industrial, a company that transports waste from cornfields and injects it into abandoned mines. For 10 points each:

[10m] Name this broad climate change technology that converts an industrial byproduct into a superfluid and then stores it in pools or sinks.

ANSWER: **carbon capture** [or **carbon sequestration**; or **carbon capture** and storage; or **carbon capture** and utilization; prompt on **carbon removal**; prompt on **carbon storage**]

[10e] This man helped finance a \$100 million prize for carbon capture technology. This billionaire acquired Twitter in 2022.

ANSWER: Elon **Musk** [or Elon Reeve **Musk**]

[10h] A 2005 report by this international organization was devoted to carbon capture technology. This group’s Sixth Assessment Report released in 2021 had 234 contributors and called for immediate cuts to emissions to avoid warming above 1.5 degrees Celsius.

ANSWER: **IPCC** [or **Intergovernmental Panel on Climate Change**; prompt on **Working Group** or **WG** with “Of what organization?”]

<Michael Bentley, Current Events - World> ~19877~ <Editor: Ganon Evans>

13. In 2024, this location's Fourth Plinth will feature Teresa Margolles's sculpture *850 Improntas*, which depicts life masks of trans people in the style of an Aztec skull rack. For 10 points each:

[10m] Name this general location home to a 169-foot tall column surrounded by four bronze lions designed by Edwin Landseer and topped by a *contrapposto* sculpture of its namesake admiral.

ANSWER: **Trafalgar** Square [prompt on Nelson's Column by asking "what more general location is that part of?"; prompt on London or Westminster]

[10h] A drone recorded people while attached to one of these objects in Heart Phillipson's Fourth Plinth sculpture *The End*. One of these objects appears on top of a spoon stretching over a lake in a Claes Oldenberg sculpture.

ANSWER: **cherry** [or *Spoonbridge and Cherry*; prompt on fruit; prompt on ice cream with "What object is on it?"]

[10e] Hans Haacke's skeletal horse sculpture played on the fact that the Fourth Plinth intended to exhibit William IV in one of these sculptures depicting a mounted figure.

ANSWER: **equestrian** statues

<Ganon Evans, Fine Arts - Sculpture> ~20170~ <Editor: Chandler West>

14. Bell's theorem states that any hidden-variable theory of quantum mechanics violates this principle. For 10 points each:

[10h] Name this principle that states that objects are only affected by their immediate surroundings.

ANSWER: principle of **locality** [reject "localization"]

[10e] In this non-local phenomenon, physically separated particles exert influence on each others' quantum states. Quantum computers rely on this phenomenon that Einstein derided as "spooky action at a distance."

ANSWER: quantum **entanglement**

[10m] Observation of an entangled particle causes this process to occur for the entire entangled system. By this process, a wavefunction reduces to a single eigenstate and can be approximated by a normal distribution with extremely low variance.

ANSWER: wavefunction **collapse**

<Benjamin Chapman, Science - Physics> ~21057~ <Editor: David Bass>

15. Arab spice traders established the Ketchchimalai ("catch-chi-mah-lie") Mosque in this island's settlement of Beruwala, where they first landed. For 10 points each:

[10m] Name this island, which was given the name "Serendib" by Arab traders. Adam's Bridge connects this island to the mainland.

ANSWER: Sri **Lanka** [or Lanka; accept Ceylon; accept Ilankai or Illangai]

[10h] Ibn Battuta's account of his visit to this Sri Lankan kingdom claims that Alexander the Great visited the island and rode his horse to one of its summits. This Tamil kingdom was centered around a namesake peninsula on the northern coast of Sri Lanka.

ANSWER: Kingdom of **Jaffna**

[10e] Arabs in Sri Lanka also controlled the trade in this good. The growth of Persian Gulf cities like Zubarah was spurred by the harvesting of these precious objects from oysters.

ANSWER: **pearls**

<Hari Parameswaran, History - World - Asian> ~20935~ <Editor: Jordan Brownstein>

16. This composer included a viola solo in a piece written during a family holiday in Alassio, Italy titled *In the South*. For 10 points each:

[10h] Name this composer whose piece *Introduction and Allegro* was inspired by a song he heard in Wales. As an engagement present to Caroline Alice Roberts, he composed the violin piece *Salut d'Amour*.

ANSWER: Edward **Elgar** [or Sir Edward William **Elgar**]

[10e] Elgar's *The Dream of Gerontius* is often considered one of these large-scale vocal works. Handel's *Messiah* and Haydn's *The Creation* are examples of these works.

ANSWER: **oratorio**

[10m] This piece by Elgar was premiered by his good friend Felix Salmond. John Barbirolli conducted this piece when it was performed by the 20-year-old Jacqueline du Pré.

ANSWER: **Cello Concerto in E minor**

<Noah Shiedlower, Fine Arts - Music - 1900 to 1970> ~20889~ <Editor: Young Lee>

17. Diane Vaughn's book *Dead Reckoning* argues that air traffic controllers have avoided the "normalization" of this behavior. For 10 points each:

[10h] Name this behavior which is suggested as being learned from others in Edwin Sutherland's differential association theory. Five types of this behavior like innovation and retreatism were theorized by Robert K. Merton's strain theory.

ANSWER: **deviance** [accept word forms such as **deviant** behavior; accept the normalization of **deviance**]

[10m] Behaviors in strain theory arise from anomie ("**ah-no-MEE**"), a lack of social direction coined in this 1897 book that analyzes altruistic or egoistic reasoning behind the title act.

ANSWER: **Suicide** [or **Suicide: A Study in Sociology**; or *Le **Suicide**: Étude de Sociologie*] (By Émile Durkheim.)

[10e] Sutherland also defined this type of crime committed by people with high social status such as embezzlement, bribery, and money laundering.

ANSWER: **white-collar** crime [prompt on **corporate** crime]

<Ganon Evans, Social Science - Sociology> ~21115~ <Editor: Athena Kern>

18. Isabel Allende ("**eye-END-ay**") discussed the definition of feminism in a talk given for this organization titled "Tales of Passion." For 10 points each:

[10e] Name this organization that hosts widely-broadcast short talks by authors at conferences whose tagline is "Ideas worth spreading."

ANSWER: **TED** ("**ted**") [or **TED** Conferences, LLC; accept **TED** talks or **TEDx** talks; accept **Technology, Entertainment, Design**]

[10m] This author adapted their TEDx ("**ted-x**") talk "We Should All Be Feminists" into a 2014 book of the same name. This author depicted Ifemelu's ("**ih-feh-MEH-loo's**") experience of moving to the U.S. in a 2013 novel.

ANSWER: Chimamanda Ngozi **Adichie** ("**chim-uh-MAN-dah ung-OH-zee ah-DEE-chee**") (The novel is *Americanah*.)

[10h] This American author's TED talk "Confessions of a Bad Feminist" draws on her 2014 essay collection *Bad Feminist*. This author explored her Haitian heritage in the novel *An Untamed State*.

ANSWER: Roxane **Gay**

<Joseph Krol, Literature - World and Miscellaneous> ~20374~ <Editor: Joseph Krol>

19. This onetime Jesuit often texted his aides in Latin. For 10 points each:

[10h] Name this politician whose father Pat had earlier served as governor of his state. This man defeated CEO Meg Whitman decades after the end of his second term as governor.

ANSWER: Jerry **Brown** [or Edmund Gerald **Brown** Jr.]

[10m] In 1977, Brown signed a law for a pioneering subsidy for these devices. Ronald Reagan removed some of these devices installed in the White House by Jimmy Carter.

ANSWER: **solar panels** [accept **solar arrays** or **solar cell panels** or **solar systems** or **rooftop solar** or **photovoltaic modules** or **photovoltaic systems**; prompt on solar cells]

[10e] A pillar of Brown's "Buddhist Economics" platform in 1980 was support of this type of amendment, which mandates that a state cannot spend more than the revenue it raises.

ANSWER: **balanced budget** amendment

<Michael Bentley, History - American - 1945+> ~20866~ <Editor: Michael Bentley>

20. Bishop Edir Macedo ("eh-JAY mah-say-DOO") became a billionaire after spreading his Universal Church of the Kingdom of God through this industry. For 10 points each:

[10h] Name this industry used by figures like Oral Roberts to spread prosperity theology.

ANSWER: **television** shows [accept **TV** networks; accept **televangelism** and word forms such as **televangelists**]

[10e] The UCKG was founded by Edir Macedo in this country. Macedo attacks this nation's African diasporic religions like Candomblé that are often practiced in its favelas.

ANSWER: **Brazil** [or the Federative Republic of **Brazil**]

[10m] In contrast to the approach of prosperity theology, this ideology supports a "preferential option for the poor." This ideology is promoted by leaders like Gustavo Gutiérrez and has prompted frustration with the hierarchical Catholic church in Latin America.

ANSWER: **liberation** theology

<Andrew McCowan, RMP - Christian Practice> ~20263~ <Editor: Athena Kern>

21. Inspired by an artist's "desecration" of a print of this painting, Salvador Dalí collaborated with Phillipe Halsman to depict himself as its subject. For 10 points each:

[10e] Name this often-parodied painting by Leonardo da Vinci that depicts the wife of Francesco del Giocondo.

ANSWER: ***Mona Lisa***

[10m] Dalí's *Self Portrait as Mona Lisa* was inspired by this artwork by Marcel Duchamp consisting of a mustache drawn on a postcard of the Mona Lisa.

ANSWER: ***L.H.O.O.Q*** ("el-hosh-oh-oh-Q")

[10h] Two more parodies of the Mona Lisa were produced by this Colombian artist: one at "Age Twelve," and another that depicts the subject with an exaggerated round body in his signature style.

ANSWER: Fernando **Botero** [or Fernando **Botero** Angulo]

<Steven Yuan, Fine Arts - Painting - 1945+> ~20457~ <Editor: Chandler West>