



## 2023 PACE NSC

Edited by David Bass, Jordan Brownstein, Jaimie Carlson, Ganon Evans, Athena Kern, Joseph Krol,  
Young Lee, Adam Silverman, Chandler West  
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### Round 16 - Tossups

1. Participants in these events invoked a god who lives near the Big Dipper and would send his mute attendant “Red Coat” to aid them. Missionaries stood near these events handing out tracts like *Good Words to Admonish the Age*, which Edwin Stevens fatefully gave to a failed participant in 1836. People trying to become *jìnshì* (“JEEN-shurr”) in these events sometimes wore special socks and vests to the complexes of open-faced cells where they took place. Lack of (\*) success in these events led Hóng Xiùquán (“hong see’ooh-ch’wen”) to start the Taiping Rebellion. The emperor oversaw the final stage of these events, which involved composing an “eight-legged essay” to display knowledge of the Four Books and Five Classics. For 10 points, name these events used to select officials to work in the Chinese government.

ANSWER: imperial examinations [or Chinese Civil Service exams; or *kējǔ*; accept tests in place of “exams”; prompt on answers like the Chinese civil service system or Chinese imperial bureaucracy] (The god in the first sentence is Wénchāng Wáng.)

<Michael Bentley, History - World - Asian> ~25387~ <Editor: Jordan Brownstein>

2. A molecular gas is classical if this quantity is much less than the cube root of inverse particle density. Entropy minus five-halves is proportional to the negative logarithm of this quantity cubed times  $N$  over  $V$  in the Sackur–Tetrode equation. This quantity was measured for electrons in an experiment to study Rutherford scattering off of nickel that inadvertently produced a (\*) Bragg pattern. This quantity equals Planck’s constant over linear momentum. Diffraction in Davisson–Germer experiments requires electrons or X-rays for which this quantity approximates crystal plane spacing. Duality gives particles a form of this quantity named for Louis de Broglie. For 10 points, name this quantity that varies inversely with frequency for waves.

ANSWER: wavelength [or de Broglie wavelength or particle wavelength or thermal de Broglie wavelength; prompt on lambda]

<Adam Silverman, Science - Physics> ~26018~ <Editor: David Bass>

**3. Johnsen and Fribourg’s 2015 meta-analysis of the most popular form of this process claimed that its success rates had fallen since widespread introduction in the 1970s. Marsha Linehan introduced this process’s “dialectical” type. The most popular form of this process, intended to combat “distortions” arising from his namesake “triad”, was introduced by Aaron (\*) Beck. Carl Rogers influentially argued that this process should be “person-centered.” Confidentiality agreements before the “group” form of this process are recommended by the APA, many of whose members practice its “cognitive behavioral” form. For 10 points, name this process in which a practitioner and a patient talk through psychological issues.**

ANSWER: psychotherapy [accept cognitive behavioral therapy or dialectical behavior therapy or group therapy or talk therapy; prompt on CBT or DBT; prompt on psychological treatment or similar; prompt on talking before “talk”; reject “psychoanalysis”]

<Joseph Krol, Social Science - Psychology> ~26021~ <Editor: Joseph Krol>

**4. Triple tonguing the articulates “tot,” “ta,” and “dot” were developed by this genre’s trumpet players, who typically play in 3rds and 6ths. This genre evolved from workers performing *sons* in alternating 6/8 and 3/4 for plantation employment. A song in this genre has a removed upbeat to represent an animal walking with a missing leg. A *jarabe* (“hah-rah-bay”) in this genre is danced around a (\*) hat. One of the oldest ensembles in this genre was founded by Gaspar Vargas and revolutionized by the violinist Rubén Fuentes. The guitarrón and vihuela back ensembles in this genre, whose performers wear *charro* outfits based on the garb of Jalisco cowboys. “La Negra” and “La Cucaracha” are songs in, for 10 points, what Mexican folk genre?**

ANSWER: mariachi [prompt on Mexican folk music or Mexican music before “Mexican” is read; prompt on son jalisciense with “What genre did son jalisciense later develop into?”; prompt on rancheras or corridos with “What larger genre are those considered part of?”; prompt on son mexicano before “son” is read]

<Ganon Evans, Fine Arts - Music - Miscellaneous> ~25477~ <Editor: Young Lee>

**5. A school of thought from this modern-day country may have influenced Pyrrhonian skepticism via the time Pyrrho spent among the “gymnosophists.” A thinker from this modern-day country developed an early non-bivalent logic based on the method of “fourfold negation.” That thinker from this country promoted a “middle way” based on contemplation of emptiness. A “great (\*) saying” from this modern-day country usually rendered in English as “thou art that” appears throughout Arthur Schopenhauer’s *The World as Will and Representation*. This country was home to the monistic Vedanta school. For 10 points, name this modern day country home to Nāgārjuna and other Buddhist philosophers.**

ANSWER: India [or Republic of India; or Bhārata; or Bhārat Gaṇarājya]

<Caleb Kendrick, RMP - Philosophy> ~24038~ <Editor: Jordan Brownstein>

**6. The preface to this play notes that its “confrontation is largely metaphysical” and that it should not be seen as a “clash of cultures.” In this play, a joke about holy water offends the servant Joseph, who is confused by changing drum music. In this play, a character disowns his father by calling him an “eater of left-overs.” That character in this play returns from studying (\*) medicine in England and argues with a woman who wears a tribal mask. A character in this play tells the story of the Not-I bird to the Praise Singer, and strangles himself with his own chains after seeing the corpse of his son Olunde (“oh-LUN-day”). Simon Pilkings prevents the ritual suicide of Elesin (“eh-LAY-sin”) according to Yoruba (“YOH-roo-buh”) tradition in, for 10 points, what play by Wole Soyinka (“WOH-lay soh-YINK-uh”)?**

ANSWER: *Death and the King’s Horseman*

<Tony Chen, Literature - World and Miscellaneous> ~17286~ <Editor: Joseph Krol>

**7. Elizabeth Barton, the so-called Nun of Kent, made a series of prophecies favorable to this person. A slave and royal bedmaker to this person named Catalina had unique insight into whether this person's first marriage to a man who died of "sweating sickness" was consummated or not. This person was granted one room in Kimbolton Castle to attend mass following the passage of the Act of Supremacy. This aunt of Holy Roman Emperor (\*) Charles V traveled to Ludlow following her marriage to Prince Arthur. This woman was the youngest surviving child of Ferdinand and Isabella. Pope Clement VII refused to annul a king's marriage to this woman, sparking the English Reformation. For 10 points, name this Spanish-born first wife of Henry VIII.**

ANSWER: Catherine of Aragon [or Katherine of Aragon or Catalina of Aragon; prompt on Queen Catherine]

<Michael Bentley, History - European - 1500-1900> ~25754~ <Editor: Michael Bentley>

**8. An aqueous solution of this compound is the simplest reagent used to hydrate alkenes, albeit with carbocation rearrangements. Nitric acid must be protonated by this compound before it nitrates benzene. The 18-molar, 36-normal pure anhydrous form of this compound has a Hammett function of -12 ("minus twelve"). This compound is made industrially by oxidizing a dioxide to a trioxide using vanadium, then dissolving it in water to make it (\*) "wet." This compound violently dehydrates sugars to pure carbon. The first rechargeable batteries used this compound as the electrolyte between two lead plates. This highest-volume industrial chemical is synthesized using the contact process. For 10 points, name this strong di-protic acid which has formula H<sub>2</sub>SO<sub>4</sub>.**

ANSWER: sulfuric acid [or H<sub>2</sub>SO<sub>4</sub> until it is read; or oil of vitriol or vitriolic acid; reject "sulfurous acid"]

<Adam Silverman, Science - Chemistry> ~25991~ <Editor: Adam Silverman>

**9. On Christmas in 1950, four Scottish students stole one of these objects and hid it in Arbroath Abbey after it broke in half. The sarsen variety of these objects are found at Avebury, as well as a "Heel" example located on an avenue in Wiltshire. One of these things was moved from Edinburgh Castle back to Westminster Abbey for King Charles's coronation and is named for originally being kept at (\*) Scone Abbey. In a castle by Cork, visitors dangle by their ankles and bend backwards to kiss one of these objects said to bestow the gift of the gab. In Britain, body weight is measured in an imperial unit named for these objects equal to fourteen pounds. Blarney Castle is home to one of, for 10 points, what objects that stand on the Salisbury plain in a "henge?"**

ANSWER: stones [accept Blarney stone or Stone of Scone or Coronation Stone or sarsen stone or Heel stone or Stonehenge; prompt on rocks or boulders or slabs with "What is it formally called?"]

<Benjamin Chapman, Geography - Europe> ~26002~ <Editor: Ganon Evans>

**10. In one work, a woman claims that this name "has a music of its own" and "produces vibrations." One work ends with a man making a statement about this name in response to being told "you seem to be displaying signs of triviality." Two women argue after believing they are both engaged to a man with this name, leading those men to plan to have Dr. (\*) Chasuble christen them with this name. Due to being left in a handbag at birth, one man is unaware this is his real name. That man is called a "Bunburyist" after he admits to using this name "in town and Jack in the country"; he and his friend Algernon both use this name to win Cecily and Gwendolen. For 10 points, an Oscar Wilde play is punningly titled for "The Importance of Being" what name?**

ANSWER: Ernest [accept *The Importance of Being* Earnest]

<Jaimie Carlson, Literature - British - Drama> ~26003~ <Editor: Jaimie Carlson>

**11. Dome-shaped houses called *osi* were used by the Cherokee during this general period. “Counts” named for this general period are important sources of Lakotan history. A famine of this name was alleviated by the arrival of “Swedish bread” in the Netherlands in 1945. A monarch descended the Jordan Staircase of a building named for this general period for an annual blessing of the Neva. This period is followed by *Rasputitsa* when “General (\*) Mud” makes roads impassable in Eastern Europe. The term “Molotov cocktail” was coined by Finns resisting Soviets in a war of this name. The 1905 Bloody Sunday massacre took place during a march to a palace in St. Petersburg named for this period. For 10 points, Thames frost fairs took place in what season?**

ANSWER: **winter** [accept hunger **winter** or **Winter** Palace or **Winter** War; prompt on answers like **cold** or **freezing** weather]

<Michael Bentley, History - Cross, Historiography, and Miscellaneous> ~25645~ <Editor: Michael Bentley>

**12. Either aptamers or these proteins are the heat-sensitive components of hot-start PCR mastermix. These proteins are conjugated to nanoparticles and are dried onto the test line in most lateral flow assays. To indicate where they were raised, these proteins’ names may start “alpha-goat” or “alpha-sheep.” A primary one of these proteins, used for capture, is sandwiched with a secondary one, used for detection, in an (\*) ELISA (“eliza”) or a Western blot. Serology testing detects these proteins. Clonal variants of these proteins are synthesized by hybridoma cultures of B cells. Cocktails of these proteins are used therapeutically to harness adaptive immunity to neutralize pathogens. For 10 points, name these proteins that tightly bind to antigens.**

ANSWER: **antibodies** [or **Abs**; or monoclonal **antibodies** or **Mabs**; or **immunoglobulins** or **Igs**]

<Adam Silverman, Science - Biology> ~25686~ <Editor: Adam Silverman>

**13. After participants in this event crossed a river, a yellow ribbon was tied to their right hands and left legs. “Things done,” “things shown,” and “things said” made up this event’s “unrepeatables.” Participants in this event made dirty jokes in honor of Iambe during a procession along the Sacred Way. Ergot may have been in the drink of kykeon consumed in the Telesterion during this event. The “Lesser” of this event occurred in March, and the “Greater” of them in October. “An ear of (\*) grain” was “cut in silence” during this event to honor the return of a goddess after she ate four pomegranate seeds. This event re-enacted the abduction of Persephone. For 10 points, name this enigmatic initiation held by the cult of Demeter.**

ANSWER: **Eleusinian** Mysteries [or **Eleusinia Mystéria**; prompt on **mysteries** before mention]

<Jaimie Carlson, RMP - Greco-Roman Mythology> ~25803~ <Editor: Jaimie Carlson>

**14. For a series of photographs taken in the Badlands, one of these objects was controversially moved by Arthur Rothstein. Flowers blossom seemingly from clouds beneath one of these objects in the painting *Summer Days*. In an attempt to create a so-called “Great American Painting,” an artist centered one of these objects on a background of red, white, and blue. In the piece *For the Love of God*, Damien Hirst covered one of these objects in (\*) diamonds. An artist depicted two calico roses on top of one of these objects and also painted one of these objects floating above the New Mexico desert next to a white hollyhock. For 10 points, flowers and what other objects were the most common subjects of Georgia O’Keeffe?**

ANSWER: **skulls** [or cow **skulls** or ram **skulls** or human **skulls**; prompt on **heads** or **bones** or **skeletons**]

<Hari Parameswaran, Fine Arts - Painting - U.S. to 1945> ~25949~<Editor: Chandler West>

**15. Strict adherents of this faith were the first to use the resin asafoetida (“ASS-uh-feh-tih-duh”) to flavor food instead of alliums. In this religion, the universe consists of three realms and is represented as a hexagon merged with a triangle. Two sects of this faith disagree as to whether the nineteenth figure in this religion’s current descending half-cycle of time was a (\*) man or woman. One division of this faith considers the *agamas* recorded from collective memory to be canonical and believe Mallinatha was a woman. That sect of this religion is the Svetambara (“sh’weh-TUM-buh-ruh”) or “white-clad” order. For 10 points, name this South Asian religion whose twenty-fourth “ford-maker” or *tirthankara* (“teer-TAHN-kuh-ruh”) was Mahavira (“mah-HAH-vee-ruh”).**

ANSWER: **Jainism**

<Athena Kern, RMP - Other Religion> ~25688~ <Editor: Athena Kern>

**16. This author’s correspondence with a speculated romantic partner is collected in *Open Me Carefully*. This author, who called letters “a joy of Earth,” included the line “Show me Eternity, and I will show you Memory” in a “letter-poem” addressed to Susan Gilbert. This author referenced the mysterious correspondent “Master” in a poem ending “I have but the power to kill, / Without – the power to die –.” For eight years, Thomas Wentworth (\*) Higginson edited this author’s poems by letter, including “My life had stood – a Loaded Gun.” This author described “the Stillness in the Room” and a “Blue – uncertain – stumbling Buzz” in another poem. For 10 points, name this reclusive Belle of Amherst who wrote the poem “I heard a Fly buzz – when I died.”**

ANSWER: Emily **Dickinson** [or Emily Elizabeth **Dickinson**]

<Yingzhi Nyang, Literature - American - Poetry> ~25421~ <Editor: Chandler West>

**17. Optimization of one of these structures occurs only every few operations in the Day–Stout–Warren algorithm. A variety of these structures are optimized by performing rotate and flip operations upon inserting new values. Balance factors of elements of these structures equal the difference of descendants’ (\*) heights. One type of these structures can “self-balance” in order to improve runtime by imposing rules on different-colored nodes in their “red–black” variety. For a weighted undirected complete graph, Prim’s algorithm constructs a “minimum spanning” one of these structures. Degeneration to a singly linked list is the worst case for the “binary search” type of these data structures. For 10 points, name these data structures with roots.**

ANSWER: **trees** [accept binary search **trees** or red-black **trees** or minimum spanning **trees** or self-balancing **trees**; prompt on **BST** before “binary” is read; prompt on **graphs**]

<Shahar Schwartz, Science - Computer Science> ~25401~ <Editor: David Bass>

**18. After hearing coughing from down the hall, this novel’s protagonist finds a man in a filthy room who asks him to boil water for the spaghetti he is making. In this novel, a trumpeter kills his cats after another character is impaled while trying to make love to the *Niobe*’s (“nigh-OH-bee’s”) figurehead. This novel’s protagonist claims to be Jesus while leading a gang of children called the (\*) Dusters. Alfred, the father of this novel’s protagonist, is shot while choking on his party pin. *Cat and Mouse* and *Dog Years* chronologically follow this novel, whose protagonist can break glass with his scream and decides to stop growing at age three. Oskar Matzerath is the protagonist of, for 10 points, what novel by Günter Grass?**

ANSWER: *The* **Tin Drum** [or *Die* **Blechtrommel**]

<Michael Bentley, Literature - European - Long Fiction> ~22840~ <Editor: Joseph Krol>

**19. A photographer born in this country depicted families playing in rivers and fields in a series of 1936 photographs called *First Paid Holidays*. That photographer from this country depicted a mass of people crowding into a Shanghai bank to buy gold. This country's capital was captured "by Night" by Brassai. A photojournalist from this country took a 1932 photograph of a man leaping over a puddle behind a train station, exemplifying his notion of the (\*) "decisive moment." In the 1860s, underground passageways in this country's capital were photographed by Felix Nadar. The earliest commercial form of photography, the daguerreotype, was developed in this country. For 10 points, name this country where Henri Cartier-Bresson captured people picnicking along the Seine River.**

ANSWER: **France** [or **French** Republic; or République **française**]

<Michael Bentley, Fine Arts - Photography> ~25992~ <Editor: Young Lee>

**20. This person unsuccessfully tried to warn secretary Betty Currie about an impending investigation while going to the bathroom at the Pentagon City Mall. Three days after testimony was given about this person, the US launched Operation Infinite Reach. This person's name was first made public in the breakthrough story for the *Drudge Report*. Conversations with this person were secretly taped by (\*) Linda Tripp and then handed over to an Independent Counsel investigating the Whitewater scandal. DNA evidence from a blue dress owned by this person was included in the appendix of the *Starr Report*. For 10 points, name this White House intern at the center of a scandal with President Bill Clinton.**

ANSWER: Monica **Lewinsky** [or Monica Samille **Lewinsky**]

<Lalit Maharjan, History - American - 1945+> ~25013~ <Editor: Michael Bentley>

**21. Patients repeatedly suffer this condition and often have blue scleras in a genetic disease caused by a similar mutation to Ehlers-Danlos syndrome. Medical shorthand indicates this condition with a pound sign. This condition is the most common cause of compartment syndrome and malunions. Patients with OI ("O-I") are genetically prone to this condition and take bis-phosphonates to maintain a higher density of (\*) hydroxy-apatite. This condition is called an avulsion if tissue shears off a ligament or tendon under stress, whereas its "greenstick" form is most common in children or sufferers of osteoporosis. The skin is punctured in the "compound" form of this condition. For 10 points, what painful condition can be treated by immobilizing skeletal tissue inside a plaster cast?**

ANSWER: bone **fracture** [or **broken bone**; or **breaking** a **bone**; accept any specific bones; accept greenstick **fractures** or avulsion **fractures** or compound **fractures**; accept **osteogenesis imperfecta** or **brittle bone** disease; prompt on **OI** until it is read]

<Adam Silverman, Science - Biology> ~25946~ <Editor: Adam Silverman>

## NSC 2023 - Round 16 - Bonuses

1. Answer the following about Black seamstresses in American literature, for 10 points each.

[10e] This author examined a quilt as an example of unrecognized Black art in her essay collection *In Search of Our Mothers' Gardens*. She also wrote *The Color Purple*.

ANSWER: Alice **Walker**

[10m] The seamstress Elizabeth Hobbs Keckley wrote a slave narrative that ends with her working for this family. A “bronzed, lank man” from this family “Walks at Midnight” in a poem by Vachel Lindsay.

ANSWER: **Lincoln** [accept “Abraham **Lincoln** Walks at Midnight”]

[10h] The seamstress Esther is scammed by George in this author’s play *Intimate Apparel*. This author of *Sweat* depicted Congolese women escaping civil war in her 2009 play *Ruined*.

ANSWER: Lynn **Nottage**

<Ganon Evans, Literature - American - Misc> ~21033~ <Editor: Ganon Evans>

2. This country attempted to establish an African protectorate by signing the 1889 Treaty of Wuchale. For 10 points each:

[10m] Name this country, which was routed by forces personally led by Empress Taytu Betul and Emperor Menelik II at the 1896 Battle of Adwa.

ANSWER: **Italy** [or **Italian** Republic; or **Italia**; or Repubblica **Italiana**]

[10e] Italy was forced to recognize the sovereignty of Ethiopia in a treaty named for this city, which Taytu Betul had founded and given a name meaning “new flower.” This city is still the capital of Ethiopia today.

ANSWER: **Addis Ababa**

[10h] Menelik II was raised by the second Ethiopian emperor with this name, who resisted English colonial efforts at the Battle of Magdala. The current pope of the Coptic Church has this name.

ANSWER: **Tewodros** [or **Tawodros**; or **Theodore**; accept **Tewodros II**, **Tawodros II**, or **Theodore II**; prompt on **Gebre Kidan** or **Gebre Kidan**]

<Hari Parameswaran, History - World - African> ~20970~ <Editor: Jordan Brownstein>

3. Newly-invented gas lights helped this composer achieve dramatic lighting effects never-before-seen in an opera that premiered at the Semperoper in Dresden in 1843. For 10 points each:

[10e] Name this German composer of *Das Rheingold* and *Die Walküre*, operas from his *Ring Cycle*.

ANSWER: Richard **Wagner** [or Wilhelm Richard **Wagner**]

[10m] Wagner’s theater in this city incorporated cutting-edge technology such as two hidden steam engines to provide a steam curtain for scenes in *Das Rheingold*. An annual festival of Wagner’s operas is held in this city.

ANSWER: **Bayreuth** (“BYE-royt”)

[10h] Wagner wrote this piece as a birthday gift to his wife Cosima. This piece is named for their son, who later served as artistic director for the Bayreuth Festival starting in 1908.

ANSWER: **Siegfried Idyll** [accept **Triebchen Idyll** with *Fidi’s birdsong and the orange sunrise, as symphonic birthday greeting*; reject “Siegfried” alone]

<Michael Bentley, Fine Arts - Opera> ~18515~ <Editor: Young Lee>

4. This character is said to be able to perfectly perceive the “stormy mane of a pony” in the same way most people perceive “a circle drawn on a blackboard.” For 10 points each:

[10h] Name this paralyzed young man, who develops extraordinary powers of perception and memory after being bucked from a horse.

ANSWER: **Funes** (“foo-NEZ”) the Memorious [or **Ireneo** Funes; or **Funes** el memorioso]

[10e] “Funes the Memorious” was included in this Argentine author’s collection *Labyrinths*, in which it follows “The Library of Babel.”

ANSWER: Jorge Luis **Borges** (“hor-HAY loo-EES bor-HEZ”) [or Jorge Francisco Isidoro Luis **Borges** Acevedo]

[10m] Other Borges characters with exceptional powers of perception include this story’s protagonist Carlos Daneri (“dan-AIR-ee”), who can see everything “from every angle of the universe” from a point on the staircase down to his cellar.

ANSWER: “The **Aleph**” [or “El **Aleph**”]

<Will Yaeger, Literature - World and Miscellaneous> ~15056~ <Editor: Joseph Krol>

5. Much of the world’s blue carbon is reserved within these organisms, which nucleate important marine ecosystems home to rockfish and sea otters. For 10 points each:

[10e] Name these massive brown algae that form underwater forests.

ANSWER: **kelp** [or **kelp** forests; prompt on **seaweed**]

[10m] Since 2011, Floridians have bemoaned the deluge of dead kelp belonging to this genus washing up on beaches. This genus also lends its name to an ecologically important region of the Atlantic Ocean where the kelp accumulates; name either.

ANSWER: **Sargassum** [or the **Sargasso** Sea]

[10h] Zoologists believe the Sargasso Sea is the site of this mysterious process, which has astoundingly never been observed outside captivity. It is the last phase in the life cycle of a catadromous animal.

ANSWER: (European) **eel reproduction** [or **eel spawning**; or **eel breeding**; or **eel sex**; prompt on **reproduction** or **spawning** or **breeding** or **sex** by asking, “Of what animal?”; prompt on similar answers that only mention **fish**]

<Adam Silverman, Science - Biology> ~20900~ <Editor: Adam Silverman>

6. The book *Mind, Self, and Society* pioneered a sociological field that focuses on the interaction between these things shared by humans. For 10 points each:

[10m] Name these things. Charles Sanders Peirce (“purse”) argued that these things require culturally specific interpretation in semiotics.

ANSWER: **symbols** [accept word forms like **symbolisms**; accept **symbolic** interactionism; prompt on **signs**]

[10h] This sociologist speculated that humans possess two components of the self called the “I” and the “Me” that are variously presented to others in his book *Mind, Self, and Society*. This colleague of John Dewey called human-specific gestures “significant symbols.”

ANSWER: George Herbert **Mead**

[10e] Mead analogized humans to members of this profession to inspect how they interact with the world.

Erving Goffman compared people’s interactions to members of this profession in his theory of dramaturgy.

ANSWER: **actors** [or **actresses**; accept synonyms like **performers** or **thespians**]

<Ethan Ashbrook, Social Science - Sociology> ~21108~ <Editor: Ganon Evans>



7. Answer the following about occasions when the New Testament quotes from pagan authors and philosophers, for 10 points each.

[10m] In one of his letters to the church in this city, Paul quotes the play *Thais* by Menander to argue that faith is futile without the historicity of Jesus's resurrection. Paul also wrote extensively about love in the 13th chapter of the same letter to this city.

ANSWER: **Corinth** [accept 1 **Corinthians** or 2 **Corinthians**]

[10e] In Acts 17 ("chapter 17"), Paul quotes the line "For we too are his offspring" from the poem *Phaenomena* by Aratus while addressing the Areopagus in this Greek city. The Parthenon was a temple in this city.

ANSWER: **Athens** [or **Athína**]

[10h] This third pastoral epistle quotes a paradox by the philosopher Epimenides ("eh-pee-MEH-nuh-dees"), in which he, a Cretan ("KREE-tun"), claims that all Cretans are liars.

ANSWER: Epistle to **Titus**

<Jon Suh, RMP - New Testament> ~19300~ <Editor: Michael Bentley>

8. Answer the following about Bowery Boys leader Isaiah Rynders, for 10 points each.

[10m] Rynders's boys helped this Democrat narrowly win New York in a presidential election. This president established an Independent Treasury and signed the 1846 Walker Tariff into law.

ANSWER: James K. **Polk** [or James Knox **Polk**]

[10e] Rynders rallied men to vote for Polk in this modern-day state. Santa Anna's forces ended a notorious siege in this state on March 6, 1836.

ANSWER: **Texas** [or **TX**]

[10h] Rynders was awarded a cushy job in this institution, which, by 1853, collected two-thirds of all revenue raised by the US government through tariffs. Chester A. Arthur was kicked out of supervising this New York institution by President Hayes.

ANSWER: United States **Custom House** [or New York **Customs House**]

<Michael Bentley, History - American - Pre-1865> ~20421~ <Editor: Michael Bentley>

9. Berkeley chemist Glenn Seaborg proposed this element's symbol as a joke because it smells so bad. For 10 points each:

[10e] Name this element that Seaborg isolated from uranium in 1941. It was later used in a nuclear bomb.

ANSWER: **plutonium** [or **Pu**]

[10m] Warning! If you got close enough to Pu-239 to smell it, you'd be at serious risk of radiation poisoning, since it alpha decays into this fissile isotope, the main target of uranium enrichment.

ANSWER: uranium-**235** [or U-**235**]

[10h] This longtime Berkeley colleague of Seaborg built a uranium enrichment device out of a particle accelerator and called it a *calutron* to honor the school. This scientist founded a laboratory that sits on the hill overlooking Berkeley.

ANSWER: Ernest **Lawrence** [Ernest Orlando **Lawrence**; or **Lawrence** Berkeley National Lab]

<Adam Silverman, Science - Chemistry> ~20843~ <Editor: Adam Silverman>

10. A cut time piece in this genre begins with the tempo marking *Spiritoso* over the notes (read slowly) "quarter note C, eighth notes E C, down to quarter note G, quarter note G" in the right hand. For 10 points each:

[10h] Name this genre. That piece in this genre was parodied in a different piece titled this genre *bureaucratique*.

ANSWER: **sonatina** [or **sonatine**; prompt on **sonata**]

[10m] Clementi's *Sonatina Opus 36 No. 1* was parodied by this composer's *Sonatine bureaucratique*. This composer wrote a piece with a theme repeated 840 times titled *Vexations*.

ANSWER: Erik **Satie** [or Eric Alfred Leslie **Satie**]

[10e] Clementi's *Sonatina Opus 36 No. 1* is in this major key signature, which has no sharps or flats.

ANSWER: **C** major

<Young Lee, Fine Arts - Music - Classical> ~21044~ <Editor: Young Lee>

11. Answer the following about characters from their depiction in Carol Ann Duffy’s feminist poetry collection *The World’s Wife*, for 10 points each.

[10e] This man’s wife declares “I keep [his] secret still— / the clever, cunning, callous bastard / didn’t have a soul to sell.” In Goethe’s play about this man, he makes a deal with Mephistopheles.

ANSWER: **Faust** [accept Doctor **Faustus**]

[10m] After he loses interest in her, this character’s wife “sawed and pulled and hacked/I wanted silence back.” An 1831 novel ends with this character’s skeleton discovered gripping that of a woman who is hanged by an Archdeacon.

ANSWER: **Quasimodo** [accept Mrs. **Quasimodo**; prompt on the **Hunchback of Notre Dame**]

[10h] The first poem of the collection describes how this “sweet sixteen, never been, babe” “took an axe / To a willow to see how it wept” before cutting a character open. An Anne Sexton poem in “Transformations” named for this character describes an animal’s body filled with stones.

ANSWER: Little **Red Riding Hood** [or Little **Red Cap**]

<Jaimie Carlson, Literature - British - Poetry> ~20940~ <Editor: Jaimie Carlson>

12. These creatures often smear horse manure on themselves because the manure quiets a protein that tells them they are cold. For 10 points each:

[10e] Name these animals who have a special bone in their paw to help them hold the bamboo they spend most of their days eating in the mountains of China.

ANSWER: **pandas** [or giant **panda**; or **panda** bear; or ***Ailuropoda melanoleuca***]

[10h] These creatures poop up to 100 times a day, producing distinctive cube-shaped scat. One of these animals nicknamed Fatso was an unofficial mascot of the 2000 Summer Olympics.

ANSWER: **wombats** [accept Fatso the Fat-Arsed **Wombat**]

[10m] An accumulation of bird poop may have contributed to a 2007 bridge collapse in this state that killed 13 people. This state’s many loons can be spotted along the Lake of the Woods in its Northwest Angle.

ANSWER: **Minnesota**

<Michael Bentley, Other - Other Academic and General Knowledge> ~20522~ <Editor: Ganon Evans>

13. Answer the following about the “Painter of the Revolution,” John Trumbull, for 10 points each.

[10h] This artist gained his reputation by working as an engraver under Trumbull. A painting by this artist depicts one of his mentors conversing with William Cullen Bryant on a mountainous peak overlooking a waterfall.

ANSWER: Asher **Durand** [or Asher Brown **Durand**] (The painting is *Kindred Spirits*.)

[10e] Many of Trumbull’s paintings decorate the rotunda of this Washington, DC building, including his depiction of the *Declaration of Independence*. This building also includes the *Apotheosis of Washington* and the *Frieze of American History*.

ANSWER: United States **Capitol** building [or US **Capitol**; accept **Capitol** Rotunda]

[10m] Many of the most iconic portraits of George Washington were painted by either Trumbull or this other artist, including his *Lansdowne Portrait* and *Athenaeum Portrait*, the latter of which appears on the dollar bill.

ANSWER: Gilbert **Stuart** [or Gilbert Charles **Stuart**]

<Chandler West, Fine Arts - Painting - U.S. to 1945> ~20899~ <Editor: Chandler West>

14. Answer the following about uses of the word “plume” in earth science, for 10 points each.

[10e] Hotspots are often linked to a hypothesized type of plume named for this layer of the Earth that lies above the outer core.

ANSWER: **mantle** [accept **mantle** plumes]

[10h] Emissions from volcanic plumes can lithify into this type of rock that consists of at least 75 percent volcanic ash. After flood basalts, the greatest output of volcanoes by volume is the form of this type of rock that results from rhyolitic ash flow.

ANSWER: **tuffs**

[10m] River plumes often have high values for this quantity that is inversely related to transparency and can be measured using a Secchi (“SEH-kee”) disk. This quantity describes how cloudy suspended particles make a liquid.

ANSWER: **turbidity**

<Joseph Krol, Science - Earth> ~21148~ <Editor: David Bass>

15. Appius Claudius’s abduction of a woman of this class named Verginia led to legal changes that allowed women to make their own wills. For 10 points each:

[10e] Name this commoner social class of Rome that often clashed with the patricians. The Gracchus Brothers were some of their elected “Tribunes.”

ANSWER: **plebeians** [accept **plebs**; accept Tribune of the **Plebs**; accept **plebes**]

[10h] *Description acceptable.* Plebs angry at their treatment following the Sabine Wars staged the first of these actions in 494 BCE. The dictator Quintus Hortensius ended the last of these actions in 287 BCE.

ANSWER: **leaving Rome** [or **secessio plebis**; accept descriptions or word forms indicating that the plebeians physically **leaving the city** or **seceding**; accept plebeians **going to Mons Sacer** or plebeians **going to the Aventine**; prompt on **not working** or **striking** or **not serving** in the Army or **seceding** or **protesting**]

[10m] This man’s reforms of 107 BCE allowed the *proletarii* to enlist in the army. This Tribune of the Plebs won the Jugurthine War, but his future rival Sulla captured Jugurtha.

ANSWER: Gaius **Marius** [accept the **Marian** Reforms or Gaius **Marius** the Elder]

<Ganon Evans, History - European - Classical> ~20922~ <Editor: Michael Bentley>

16. In 1987, a surge in research into these materials culminated in an eight-hour marathon session of lectures dubbed the “Woodstock of physics.” For 10 points each:

[10m] Name these materials, a type of which expel magnetic fields upon descending below a critical value.

ANSWER: **superconductors** [accept type-II **superconductors**]

[10e] The excitement surrounding the Woodstock of physics centered on discoveries of superconductors with relatively high values of the “critical” form of quantity, which can be measured in Kelvin.

ANSWER: **temperature** [prompt on **T**]

[10h] This earliest-discovered family of high-temperature superconductors is named for the four elements that its members contain. These materials have a perovskite structure with layers bounded by alternating planes and ribbons.

ANSWER: **YBCOs** [accept **yttrium barium copper oxides**]

<Lalit Maharjan, Science - Physics> ~20510~ <Editor: David Bass>

17. In one story, this river was created when some characters chopped down a water-filled lupuna tree that Maira or Grandfather had been using to bathe. For 10 points each:

[10h] Name this river that is central to many of the myths of the Yagua and Witoto people. A shapeshifting dolphin that lives in this river supposedly kidnaps people at night.

ANSWER: **Amazon** River [accept Rio **Amazonas**]

[10e] In Yagua myth, the characters who chopped down the lupuna tree have this relationship to each other. Hunahpu and Xbalanque (“shee-buh-LAHN-kay”), the heroes of the Mayan *Popul Vuh*, have this relationship to each other.

ANSWER: **twins** [accept hero **twins** or fraternal **twins** or identical **twins**; prompt on **brothers** or **siblings**]

[10m] The Amazon Water Lily was often connected to this concept, the domain of the god Ruda. Tanais was cursed to throw himself into the river Amazonius by a goddess of this domain, who was caught under a bronze net.

ANSWER: **love** [accept answers like **lust** or **fertility** or **sexual** longing or **desire**]

<Michael Bentley, RMP - World Mythology> ~18719~ <Editor: Jaimie Carlson>

18. Kim Kardashian’s dermatologist Simon Oulian described celebrities suffering from saggy skin after taking this drug. For 10 points each:

[10h] Name this brand-name version of semaglutide that, like Mounjaro, has been widely used to lose weight. Novo Nordisk creates this injectable drug.

ANSWER: **Ozempic** [or **Wegovy**]

[10e] Ozempic was originally developed to lower blood sugar levels in people with the type 2 form of this disease.

ANSWER: type 2 **diabetes**

[10m] Novo Nordisk is based out of this country, where Prime Minister Mette Frederiksen is dealing with riots from Rasmus Paludan’s Stram Kurs party burning Qur’ans.

ANSWER: **Denmark** [or the Kingdom of **Denmark** or the **Danish** Realm; accept Kongeriget **Danmark** or **Danmarks** Rige]

<Michael Bentley, Current Events - U.S.> ~20844~ <Editor: Ganon Evans>

19. In the 19th century, Dutch subjects participating in this event would endure Middle Passage–style conditions when sailing from Singapore. For 10 points each:

[10m] Name this event that began to be dominated by European steamship companies in the 19th century. Richard Francis Burton adopted a Pashtun disguise to partake in this event.

ANSWER: the **hajj** [prompt on **pilgrimages** or **pilgrimages to Mecca**; prompt on **traveling to Mecca**]

[10e] The British mandated the use of this practice for the hajj after an 1865 cholera outbreak. This public health measure could last for 15 days for anyone entering the Ottoman Empire at Thessaly.

ANSWER: forced **quarantine** [prompt on medical **isolation**]

[10h] This Ottoman sultan called for Muslims around the world to fund the Hejaz Railway to Mecca. This last Ottoman sultan to hold real power was deposed in 1909.

ANSWER: **Abdul Hamid II** [or **Abdülhamid II**; prompt on **Abdul Hamid** or **Abdul** or **Hamid**]

<Michael Bentley, History - Cross, Historiography, and Miscellaneous> ~20097~ <Editor: Michael Bentley>

20. This book's second chapter analogizes its title system to "Our Sewage Disposal System." For 10 points each:

[10m] Name this three-volume non-fiction book subtitled "An Experiment in Literary Investigation," which discusses the lives of *zeks* which its author *also* depicted in a novella about Shukhov ("SHOO-kov").

ANSWER: *The **Gulag Archipelago**: An Experiment in Literary Investigation* [or ***Arkhipelag GULAG***] (The novella is *One Day in the Life of Ivan Denisovich*.)

[10e] This Russian author opposed the gulag system in *The Gulag Archipelago* and *One Day in the Life of Ivan Denisovich* ("deh-NEE-soh-vitch").

ANSWER: Aleksandr **Solzhenitsyn** ("alex-ander sol-zhen-ITZ-in") [or Aleksandr Isayevich **Solzhenitsyn**]

[10h] Support for the gulags is analyzed as a form of "ketman" in this Czesław Miłosz ("CHESS-waff MEE-woash") book, which discusses how intellectuals such as the "moralist" Alpha and "slave of history" Gamma submit to Stalinism.

ANSWER: *The **Captive Mind*** [or ***Zniewolony umysł***]

<Clark Smith, Literature - European - Other> ~15974~ <Editor: Joseph Krol>

21. In 2022, a body stuffed into a barrel was discovered when this lake hit record low levels. For 10 points each:

[10m] Name this lake where shipwrecks have been spotted near Henderson. This reservoir and the similarly created Lake Powell have been threatened by megadrought.

ANSWER: Lake **Mead** [prompt on Colorado River]

[10h] In August 2022, a UN agency warned that Lake Mead would soon reach this level, the point at which water no longer flows downstream from a reservoir because it is fully drawn down.

ANSWER: **dead pool** volume [prompt on minimum volume]

[10e] If Lake Mead ever completely dries out, hikers could inspect the remains of one of these events from 1948. A monument in Somerset County, Pennsylvania commemorates one of these events that occurred on 9/11 after passengers overwhelmed terrorists.

ANSWER: **plane crash** [accept equivalents indicating a **crash** or **disaster** occurring with an **airplane** or related to **aviation**; prompt on a crash or accident]

<Michael Bentley, Geography - United States> ~19873~ <Editor: Ganon Evans>