



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 18 - Tossups

1. A book inspired by this place relates a story about a poet who regrets not catching fish like a dutiful monk because his head is in the clouds all day. A price of 28 dollars and 12 cents is listed in a book named for this place whose characters include the illiterate Frenchman Alec Thérien. A conversation with Ellery Channing inspired the chapter “Brute Neighbors” in a book titled for this place; that chapter also describes a war between groups of red and black ants. The chapter (*) “Economy” opens a book inspired by the author’s two years, two months, and two days living by this body of water on land owned by Ralph Waldo Emerson. For 10 points, name this body of water that titles a series of transcendental reflections by Henry David Thoreau.

ANSWER: **Walden** Pond [or *Walden: or, Life in the Woods*; or Thoreau’s house or land at **Walden** Pond; prompt on any answers indicating Thoreau’s house or land or similar by asking, “along what body of water?”] <Ethan Ashbrook, Literature - American - Nonfiction> ~26067~ <Editor: Chandler West>

2. Alongside George Price, a thinker with this surname described a resource cost exceeding the fighting cost in setting out the hawk–dove game. That thinker with this surname applied game theory to biology with his concept of evolutionary stable strategies. A thinker with this last name proposed a predecessor of Marx’s labor theory of value to explain the divergent price of (*) diamonds and water. A thinker with this name discussed the sympathy of an impartial spectator. That author with this last name discussed a pin factory’s use of the division of labor in a book that described an incorporeal entity that guides markets. For 10 points, give this last name of a Scottish thinker who described the “invisible hand” in *The Wealth of Nations*.

ANSWER: **Smith** [accept John Maynard **Smith** or Adam **Smith**] (The impartial spectator is discussed in Adam Smith’s *The Theory of Moral Sentiments*.) <Joseph Krol, Social Science - Economics> ~26038~ <Editor: Athena Kern>

3. Gelsolins (“jell-SOL-ins”) degrade hydrogels containing this protein into sols. *Listeria* forms “comet tails” of this protein to rocket its way through cells. Microscopists image this protein by tagging it with the death cap mushroom’s phalloidin (“fuh-LOY-din”) toxin. At intracellular concentrations that can exceed a millimolar, this protein’s globular monomer devours ATP to rapidly polymerize. A cocked head forms a cross-bridge with this protein and pushes (*) long threads of it backwards during a power stroke. Assembly of this protein’s fibers at the cell’s leading edge or inside pseudo-podia provides flexibility to the cytoskeleton. For 10 points, name this protein which forms thinner filaments than tubulin and slides past myosin during muscle contraction.

ANSWER: beta-**actin** [or F-**actin**; or G-**actin**] <Victor Prieto, Science - Biology> ~24040~ <Editor: Adam Silverman>

4. J.P. Daughton's book *In The Forest of No Joy* studies one of these projects that, along with rubber harvesting, triggered the War of the Hoe Handle. One of these projects from the 1970s was an early foreign investment by the PRC and is called TAZARA. The CGR managed these projects prior to the formation of the SAR using the "Cape" standard. Portugal's "Pink Map" created problems for one of these projects proposed by the founder of (*) De Beers. A political cartoon in *Punch* of a man holding a telegraph line while standing across Africa symbolized Cecil Rhodes's vision of building one of these projects across Africa. For 10 points, Rhodes planned to link Cape Town to Cairo with what type of transportation infrastructure?

ANSWER: African railroad [accept equivalents like railway; accept train network; accept Cape to Cairo railroad; prompt on transportation project; reject "road"]

<Lalit Maharjan, History - Cross, Historiography, and Miscellaneous> ~24944~ <Editor: Michael Bentley>

5. This artist's early training under graphic artist Samuel Jessurun de Mesquita ("samuel heh-soor-uhn day meh-skeet-ah") was put to use in the four colored woodblock prints he used for making *Double Planetoid*. This artist's final print, *Snakes*, contains the rotational symmetry common in his late period. This artist, seated in his Roman studio, looks directly into the title object in his 1935 painting *Hand with Reflecting Sphere*. Tiles from the (*) Alhambra inspired this artist to create works such as *Verbum* that feature fish or birds with tessellated patterns. A lithograph by this artist that exemplifies Douglas Hofstadter's notion of the "strange loop" depicts two hands drawing each other. For 10 points, name this Dutch artist known for his "impossible constructions," such as seemingly endless staircases.

ANSWER: M. C. Escher [or Maurits Cornelis Escher]

<Michael Bentley, Fine Arts - Painting - 1945+> ~25988~<Editor: Chandler West>

6. A study of these beings includes pictures of Felicia Felix-Mentor, who swept the grounds of a hospital. Wade Davis investigated stories of these beings in *The Serpent and the Rainbow*. Female *caplatas* and male *bokors* create talismans and these beings, as described by Zora Neale Hurston in *Tell My Horse*. William Seabrook's book *The Magic Island* brought public attention to these beings, which (*) Baron Samedi prevents people from becoming. The modern Western idea of these beings is often traced back to a George A. Romero film trilogy. Clairvius Narcisse claimed that he was given pufferfish venom and enslaved after Haitian Vodou turned him into one of these beings. For 10 points, name these monsters central to the film *Night of the Living Dead*.

ANSWER: zombies [accept zonbi or zombi; prompt on the dead or living dead or undead before end]

<Lalit Maharjan, RMP - World Mythology> ~25312~ <Editor: Jaimie Carlson>

7. Drum-shaped boxes placed in this city's churches allowed citizens to denounce sodomizers to the Office of the Night, who were promptly denounced themselves. This city issued a gold coin with depictions of John the Baptist and a *fleur-de-lis*, which became Europe's first common currency. The "Eight Saints" of this city tried to undermine an administration led by a wool worker who had taken power during the Revolt of the (*) Ciompi ("CHOM-pee"). Pope Sixtus IV backed the Pazzis in their conspiracy to assume leadership of this city by assassinating rivals in its Duomo. The Bonfire of the Vanities was organized in this city by Girolamo Savonarola. For 10 points, name this Italian city once ruled by Lorenzo the Magnificent, head of the house of Medici.

ANSWER: Florence [or Firenze]

<Yingzhi Nyang, History - European - 1500-1900> ~25171~ <Editor: Michael Bentley>

8. In the transfer matrix method, a simple form of this process is represented by an identity matrix. In AC power lines, the scaled difference between load and characteristic impedance is a coefficient named for this process symbolized capital gamma. This process lends its name to the fraction of particles that do not tunnel through a barrier. This process is effectively blocked by a (*) thin film if the path length is half this process's phase shift. The fractions of this process and transmission sum to one. The angle of incidence equals the angle of this process on a flat surface. Optical signals are stuck inside a waveguide by the "total internal" form of this process. For 10 points, name this process by which light bounces off mirrors.

ANSWER: reflection [or reflection coefficient or reflectance or total internal reflection]

<Adam Silverman, Science - Physics> ~26092~ <Editor: David Bass>

9. A woman based on this character steals back Venetia Moore's fiance Captain Fox in a story from Susanna Clarke's *The Ladies of Grace Adieu*. This character titles a utopian "Philosophical Poem" by Percy Shelley. This character causes a man to think of "breaches, ambuscadoes, Spanish blades" and "plaits the manes of horses." After this character "drums in [a soldier's] ear," he "starts and wakes... swears a prayer or two and (*) sleeps again." This character has a "whip of cricket's bone" for a horse-team of "little atomies" and is "in shape no bigger than an agate stone." This character makes lovers dream of love, ladies dream of kisses, and lawyers dream of fees. For 10 points, name this "fairies' midwife" who is the subject of a speech by Mercutio in *Romeo and Juliet*.

ANSWER: Queen Mab

<Jaimie Carlson, Literature - British - Drama> ~25792~ <Editor: Jaimie Carlson>

10. Atoms with higher values for this quantity are weighted more in bonding orbitals and are placed lower in energy on MO ("M-O") splitting diagrams. The formal charge exceeds the oxidation state for the atom with a higher value for this quantity. Atoms with high values for this quantity increase the chemical shift of adjacent protons in the field effect and their acidity in the inductive effect. Atoms with high values of this quantity occupy the reddest lobes on an (*) electrostatic potential surface. Dipole moment vectors point at the atom with a higher value for this property, and bigger differences in it correspond to more ionic bonds. The Pauling scale for this property rates fluorine as a 4. For 10 points, name this ability of an atom to attract electrons.

ANSWER: electronegativity [accept electron density; accept electron-withdrawing groups or EWGs or electron-withdrawing ability; prompt on the Greek letter chi]

<Adam Silverman, Science - Chemistry> ~25594~ <Editor: Adam Silverman>

11. This composer developed a secret method for playing third harmonics in pieces such as his variations on the aria "Di tanti palpiti." A "ricochet" playing style is used in a piece by this composer that also contains many double stops emulating the sound of flutes and horns. This composer pioneered a technique that he used in the ninth of a set of variations on an A minor theme, in which rapid arpeggiated scales are played with left hand (*) pizzicato. This composer, whose skill as a performer was likely due to increased joint flexibility from Marfan syndrome, wrote a virtuosic showpiece that inspired Sergei Rachmaninoff's "Rhapsody on a Theme of [this composer]." For 10 points, name this Italian composer and virtuosic violinist who wrote 24 caprices.

ANSWER: Niccolò Paganini [accept *Rhapsody on a Theme of Paganini*] (The piece in the second line is his *Caprice No. 9*, "The Hunt.")

<Steven Yuan, Fine Arts - Music - Romantic> ~25172~ <Editor: Young Lee>

12. *Note to moderator: read answerline carefully.* **Low-quality products of this type were exposed in Samuel Hopkins Adams’s “The Great American Fraud.” Frances Kelsey’s concerns regarding one of these products led to the passage of the Kefauver–Harris Amendment. James Lewis blackmailed a company that produces these products during a series of 1980s murders in Chicago. A 1997 campaign by Boots allowed for TV (*) advertising of these products in the US, the only country that allows such advertising apart from New Zealand. These products are the second mentioned in the name of a 1906 bill also called Dr. Wiley’s Law that mandated purity in them. In the 19th century, a common ingredient in these products was snake oil. For 10 points, name these products whose prescription type have to be approved by the FDA.**

ANSWER: **drugs** [or **medicine**; accept patent **medicines** or quack **medicines** or prescription **drugs** or **nostrums** or **pills** or **pharmaceuticals**; accept **Tylenol** or **thalidomide** or **cancer drugs** or **morning sickness drugs** or **anxiety drugs**]

<Michael Bentley, History - American - 1945+> ~24035~ <Editor: Michael Bentley>

13. **This figure ate fruits that were already bitten by Shabari. In some stories, this figure defeats his two sons in battle without knowing their identities. This figure did *not* slay a buffalo demon, but his victory over another demon is celebrated on a holiday by stuffing effigies with firecrackers and exploding them. In his absence, this figure is represented on his throne by a pair of (*) shoes. When this figure’s younger brother is wounded, he is healed by a mountain of herbs brought by a monkey. After this figure kills a nearly invincible demon with ten heads, he comes home to Ayodhya (“ah-YOD-yuh”) after 14 years in exile. The slayer of Ravana and husband of Sita is, for 10 points, what seventh avatar of Vishnu who is the namesake of a major Hindu epic?**

ANSWER: **Rama** [accept **Raman** or **Rāmacandra** or **Ramayana**; prompt on **Vishnu** before mention]

<Sudheer Potru, RMP - Hinduism> ~24924~ <Editor: Athena Kern>

14. **A book *titled for this author* proposes “billingsgates” and ritual spectacles as two sources of “folk laughter.” This author’s use of the “grotesque” and “carnavalesque” modes was discussed in a book titled for this author “and his World” by Mikhail Bakhtin (“mih-khigh-IHL BACK-tin”). It’s not Jonathan Swift, but one of this author’s characters kills 260,418 men by urinating off a cathedral. A movement led by Aleister Crowley was inspired by this author’s description of a place with the sole precept “do what thou (*) wilt.” In a pentalogy of novels by this author, the Oracle of the Golden Bottle is consulted by Panurge, and the Abbey of Thélème (“thay-lem”) is founded by one of two title giants. For 10 points, name this 16th-century French author of *Gargantua and Pantagruel*.**

ANSWER: François **Rabelais** (“RAHB-uh-lay”) [or Alcofribas **Nasier**]

<Joseph Krol, Literature - European - Long Fiction> ~25035~ <Editor: Joseph Krol>

15. **This city’s current mayor once dated Mohammed Nuru, a head of its Public Works who was sentenced to seven years in prison for bribery. A 2022 *Guardian* article mocked the new 20,000 dollar “Soft Square” public trash cans commissioned by this city. In 2022, voters in this city recalled progressive district attorney Chesa Boudin (“boo-DEEN”). In April 2023, public safety advocates in this city initially seized on the stabbing death of (*) CashApp founder Bob Lee. During a home invasion, David DePape assaulted the husband of a congresswoman who represents this city. This city’s mayor London Breed is pursuing a “tough love” policy towards homeless camps in its Tenderloin neighborhood. For 10 points, Nancy Pelosi represents what city in the Bay Area?**

ANSWER: **San Francisco**

<Michael Bentley, Current Events - U.S.> ~25976~ <Editor: Ganon Evans>

16. *Description acceptable.* Requirements for this property in materials are described by California's TB 117 standard. Aluminum hydroxide is incorporated into polymers because its release of vapors upon decomposition gives it this property. Tris is a material with this property that, like most of its brominated siblings, is carcinogenic. A 1953 law mandates that chemicals with this property be added to children's (*) pajamas after several rayon-related deaths. Materials with this property are the primary safety measure for a certain type of disaster alongside devices that commonly contain americium-241. Materials with this property can contain thermal shielding and obstruct an ignition source. For 10 points, name this property of materials that prevent the spread of fire.

ANSWER: **flame-retardant** [or **fire-retardant** or **non-flammable**; accept answers describing **resisting fires** or **preventing** the spread of **fires**; prompt on **retardant** or smolder **resistant** or smoldering **resistant**; reject "inflammable"]

<Michael Bentley, Science - Engineering and Miscellaneous> ~25888~ <Editor: David Bass>

17. A politician with this surname falsely claimed that Ronald Richter had built the world's first thermonuclear reactor on the island of Huemul ("wey-mool"). The embalmed body of a politician with this surname was secretly removed from the CGT's headquarters. A former nightclub dancer with this surname was deposed by the National Reorganization Process after becoming the first woman to hold the title of "president" in (*) 1974. A leader with this surname was supported both by the left-wing Montoneros and the right-wing *descamisados*. A woman with this married surname died of cervical cancer in 1951, inspiring an outpouring of grief in the country where she was First Lady. For 10 points, give this surname of Argentine politicians Isabel, Juan, and Evita.

ANSWER: **Perón** [accept Juan **Perón** or Isabel **Perón** or Eva **Perón**]

<Michael Bentley, History - World - Latin American> ~24264~ <Editor: Jordan Brownstein>

18. The act of "coming out of" this place is identified with the "renunciation of time" in Simone Weil's *Gravity and Grace*. After being dragged up a "rugged ascent," a resident of this place learns that the "child of goodness" is the source of the changing seasons. This place corresponds to *pistis* and *eikasia*, the two segments of the "visible realm" as described in the prior section's analogy of the (*) divided line. This place features a low wall in front of a road on which men carry statues and figures of animals. In a story meant to show that philosophers should rule the ideal city, a man is freed from this place and learns that its shadows are not reality. For 10 points, name this underground setting of an "allegory" in Plato's *Republic*.

ANSWER: the **cave** [or the **cavern**, the **den**, or **prison**-house; or **spilaion**; accept the allegory of the **cave**]

<Jordan Brownstein, RMP - Philosophy> ~25025~ <Editor: Jordan Brownstein>

19. One of these structures on a former almshouse in Beaune, France is decorated with polychrome tiles. An "accessible" one of these structures designed by Snohetta is much-used by pedestrians at the National Opera and Ballet in Oslo. In traditional Chinese architecture, joints on a type of bracket called *dǒugǒng* are held together by the pressure of these structures. For the main terminal of the Dulles Airport, Eero Saarinen designed one of these concrete structures with a prominent (*) catenary curve. The Chicago City Hall has a "green" example of one of these structures that covers most of it with vegetation. These structures are often made from shingles and may be pitched to allow rain to drain off. For 10 points, name these structures that cover a building.

ANSWER: **roofs** [accept glazed-tile **roof** or green **roof**; reject "ceiling"]

<Michael Bentley, Fine Arts - Architecture> ~25509~ <Editor: Young Lee>

20. This author described “the angel of the Central Committee” in a poem recounting his escape on horseback through a mountain pass from his book *Grapes and the Wind*. After fleeing to Paris using the passport of the author of *The Banana Trilogy*, this author published both *The Captain’s Verses* and a collection that describes moving “from air to air, as through an empty net” and states “Arise to (*) birth with me, my brother.” At age 19, this poet published a collection that describes how “The memory of you emerges from the night around me” and how “in you everything sank!” following a poem about how “tonight I can write the saddest lines.” For 10 points, *Canto General* (“KAHN-toh HAY-nay-RALL”) and *Twenty Love Poems and a Song of Despair* are by what Chilean poet?

ANSWER: Pablo Neruda [or Ricardo Eliécer Neftalí Reyes Basoalto]

<Joseph Krol, Literature - World and Miscellaneous> ~25279~ <Editor: Joseph Krol>

21. Phemius places this object down to beg for mercy, and is told to use this object to dispel suspicion of murders. In the Iliad, a Thracian man loses the ability to use this non-bodily object after boasting near the river Alpheus. Amphion builds the walls of Thebes by using this object to move stones. In one tradition, Heracles killed his teacher Linus by striking him on the (*) head with this object. This object is used upside down in a contest that results in Marsyas being flayed alive. A day-old god invented this object after stealing cattle. These objects are the symbols for the muses Erato and Terpsichore. A turtle shell and cow entrails were first used to create these objects by Hermes. For 10 points, name this ancient Greek stringed instrument.

ANSWER: lyre [accept yoke lute; accept cithara; prompt on musical instrument] (The second line is about Thamyris.)

<Lalit Maharjan, RMP - Greco-Roman Mythology> ~24745~ <Editor: Jaimie Carlson>

NSC 2023 - Round 18 - Bonuses

1. In one myth, the mother of these characters gets them to stop arguing by comparing them to a hard-boiled, a scrambled, and an over-easy egg. For 10 points each:

[10h] Name these characters, who disappear one at a time in a Mohawk story. Stories about these characters often emphasized how their namesake plants went together.

ANSWER: **Three Sisters** [accept, BUT NOT REVEAL, **squash** AND **beans** AND **corn**; accept **maize** in place of **corn**]

[10e] In farming, the “Three Sisters” are squash, beans, and this crop. Many religions feature a “Maiden” or a “Mother” of this crop, which Squanto supposedly taught Pilgrims how to plant.

ANSWER: **corn** [or **maize**]

[10m] In this myth system, the gods created men out of white and yellow corn after failing to make them from clay and wood. Demons in this myth system include Seven Macaw.

ANSWER: **Mayan** mythology [accept **K’iche’** or **Ixli** mythology]

<Jaimie Carlson, RMP - World Mythology> ~21229~ <Editor: Jaimie Carlson>

2. Solar flares can cause sudden ionospheric disturbances in portions of the ionosphere that are under this condition. For 10 points each:

[10h] Name this condition that increases the density of the ionosphere, causes its F-layer to split, and causes its D-layer to appear.

ANSWER: **daytime** [accept answers describing the Earth’s **dayside** or the side of the side of the Earth that is directly receiving **sunlight**; prompt on **solar wind** or **cosmic rays** with “What condition causes an increased amount of particles to reach a part of the Earth?”]

[10m] Diurnal fluctuation of the ionosphere must be accounted for when positioning a “skip,” in which reflection off of the bottom of the ionosphere extends the range of the “shortwave” form of this technology.

ANSWER: **radio** communication [or shortwave **radio**]

[10e] The ionosphere is a part of this planetary structure that can also be categorized into layers including the troposphere and stratosphere.

ANSWER: Earth’s **atmosphere**

<David Bass, Science - Earth> ~21358~ <Editor: David Bass>

3. This artist, who often sang an “Echo Song” that imitated a mountain shepherd calling sheep, caught her big break during a Berlin production of Vincenzo Bellini’s *Norma*. For 10 points each:

[10h] Name this Swedish singer who nearly caused riots in several stops on her extremely popular tour of the United States in the early 1850s sponsored by P. T. Barnum.

ANSWER: Jenny **Lind** [or Johanna Maria **Lind**; or Jenny **Lind**-Goldschmidt; prompt on Swedish **Nightingale**]

[10e] It’s not robes, riding hats, or sofas, but Lind’s image was widely used to sell this product. The work of Tin Pan Alley composers was spread via this printed medium.

ANSWER: **sheet music** [accept **scores** or **score** music; prompt on **music** or **sheets**]

[10m] During Lind’s first performance in New York, she sang a song written specially for her by this composer. This German composed the grand operas *Robert le diable* and *Les Huguenots*.

ANSWER: Giacomo **Meyerbeer** [or Jakob Liebmann **Beer**]

<Michael Bentley, Fine Arts - Music - Miscellaneous> ~20052~ <Editor: Young Lee>

4. Six different authors contributed stories about this war to the collection *Evenings at Medan* (“meh-DAN”). For 10 points each:

[10h] Name this war, the setting of the story “Two Friends.” In another story, a woman rings a church bell every day until the end of this war following a violent party.

ANSWER: **Franco-Prussian War** (The latter story is “Mademoiselle Fifi.”)

[10e] This French author of “The Necklace” set “Mademoiselle Fifi” and “Two Friends” during the Franco-Prussian War.

ANSWER: Guy de **Maupassant** (“GHEE duh MOH-pah-SAWN”)

[10m] *Evenings at Medan* included this other Maupassant story set during the Franco-Prussian War, in which the title woman is shamed by other passengers into sleeping with a Prussian officer in order to allow the safe passage of their stagecoach.

ANSWER: “**Ball of Fat**” [or “**Boule de Suif**” or “**Dumpling**” or “**Butterball**” or “**Ball of Lard**”]

<Ana Pranger, Literature - European - Short Fiction> ~11907~ <Editor: Joseph Krol>

5. Herodotus wrote about how these people burned hemp and “howl[ed] in joy at the vapor-bath,” even though they never otherwise bathed. For 10 points each:

[10h] Name these nomadic people who displaced the Cimmerians in the Pontic Steppe. About 20 percent of their “warrior graves” contain women.

ANSWER: **Scythians** [accept **Sakas** or **Sakae** or **Massagetae**]

[10m] The Scythian queen Tomyris allegedly shoved this king’s decapitated head into a bag of blood. This ruler titles a biography written by Xenophon.

ANSWER: **Cyrus the Great** [accept **Cyrus II** or **Cyrus the Elder**; prompt on **Cyrus** or **Cyropaedia**]

[10e] Scythians decorated their war horses with these objects. Henry Hamilton earned the nickname “hair-buyer general” for paying for these gruesome “trophies” removed from dead Native Americans.

ANSWER: **scalps** [accept **scalping**; prompt on **skins** or **heads** or top of someone’s **head**]

<Yingzhi Nyang, History - Cross, Historiography, and Miscellaneous> ~20700~ <Editor: Michael Bentley>

6. Because crystallization of these compounds is exothermic, supersaturated solutions of them act as the phase change materials, or heat reservoirs, in commercial hand warmers. For 10 points each:

[10m] Name these ionic solids that contain stoichiometric amounts of water.

ANSWER: salt **hydrates**

[10e] These lipids are a popular cheaper option for large-scale heat storage. The paraffin type of these materials stores the heat used in candles.

ANSWER: paraffin **waxes** [prompt on **alkanes**; prompt on **aliphatic compounds**]

[10h] These mixtures are preferred over both hydrates and waxes as phase-change materials for low-temperature heat storage. These mixtures occur at the triple point of a binary phase diagram when two alloys melt at the same temperature.

ANSWER: **eutectic** mixtures [or **eutectics**; reject “eutectoid” mixtures]

<Adam Silverman, Science - Chemistry> ~20761~ <Editor: Adam Silverman>

7. This religion was heavily syncretized with Buddhism, leading to temples being built alongside shrines. For 10 points each:

[10e] Name this religion. *Honji suijaku* theory describes Buddhist deities that are manifested into the omnipresent kami of this Japanese religion.

ANSWER: **Shintoism**

[10h] This Buddhist sect that studies teachings called Goshō, venerates Gohonzon, and chants words like Namu Myōhō Renge Kyō (“**nahm myoh-hoh rehn-gey kyo**”). This sect was founded by its namesake in the 13th century, and the Soka Gakkai movement emerged from it in 1930.

ANSWER: **Nichiren**

[10m] Nichiren Buddhism values this text above all others. The chant Namu Myōhō Renge Kyō (“**nahm myoh-hoh rehn-gey kyo**”) translates to “Glory to the Dharma of the [this] Sutra.” This Sutra claims that all humans are capable of Buddhahood.

ANSWER: **Lotus** Sutra

<Veer Bhatt, RMP - East Asian Religion> ~21020~ <Editor: Athena Kern>

8. This novel’s narrator uses the archaic pronoun “wagahai” (“**WAG-uh-high**”), which appears in its original-language title. For 10 points each:

[10h] Name this Natsume Sōseki (“**nat-SOO-may soh-SEK-ee**”) novel whose narrator eventually drowns in a rain barrel after mocking his owner Mr Sneaze (“**sneeze**”).

ANSWER: **I Am a Cat** [or **Wagahai wa Neko de Aru**]

[10e] Other cat-loving Japanese writers include this author of *Norwegian Wood*, who depicted a search for a missing cat in his novel *The Wind-Up Bird Chronicle*.

ANSWER: Haruki **Murakami** [or **Murakami** Haruki]

[10m] Nakata searches for lost cats and murders the cat-killer Johnnie Walker in this Murakami novel, in which a runaway teenager reads Sōseki novels in a library and renames himself after the title person.

ANSWER: **Kafka on the Shore** [or **Umibe no Kafuka**]

<Joseph Krol, Literature - World and Miscellaneous> ~20380~ <Editor: Joseph Krol>

9. Southern dialects often include multiple modals such as “might could” in phrases characterized by these words. For 10 points each:

[10e] Name these words whose auxiliary form accompanies their infinitive form and includes words like “do,” “have,” and “am.”

ANSWER: **verbs** [accept **verb** phrases; accept auxiliary **verbs** or helper **verbs**; accept infinitive **verbs**]

[10m] William Labov defined the loss of an offglide in diphthongs as a “Southern” example of these linguistic occurrences in which the change in the sound of a phoneme causes other words to sound different.

ANSWER: **shift** [accept specific types of shifts such as a chain **shift**; accept Great Vowel **Shift**; accept Southern **shift**]

[10h] Since after the Civil War, Southern English has undergone a merger of the vowels “e” and “i” named for these two words.

ANSWER: **pin-pen** merger [or **pen-pin** merger]

<Ganon Evans, Social Science - Linguistics> ~20823~ <Editor: Ganon Evans>

10. This king was found dead in Lake Starnberg next to psychiatrist Bernhard von Gudden in 1886. For 10 points each:

[10m] Name this Bavarian king who had been deposed three days before his death following a diagnosis from von Gudden.

ANSWER: Mad King **Ludwig** [or **Ludwig II**; or the **Swan King**; or The **Fairy Tale King**; or der **Märchenkönig**]

[10e] Ludwig is perhaps best remembered for constructing an anachronistic one of these buildings in Bavaria with a 90 meter keep and a moat.

ANSWER: **castle** [prompt on **palace**; accept Neuschwanstein **Castle**]

[10h] The issue of a “madness” affecting German despots arose when Ludwig Quidde published an 1894 pamphlet on this much earlier ruler that was widely read as a critique of Wilhelm II. Some stories about this extremely hairy man’s madness center on his fanciful “Floating Bridge of Baiae (“bye-aye”).”

ANSWER: **Caligula** [prompt on Gaius Julius Caesar Augustus **Germanicus**]

<Michael Bentley, History - European - 1500-1900> ~20429~ <Editor: Michael Bentley>

11. This musician played in the rhythm section on the live album *Jazz at Massey Hall* alongside Bud Powell and Charles Mingus. For 10 points each:

[10h] Name this jazz drummer. He is best known for leading a quintet with Clifford Brown and recording *Money Jungle* with Mingus and Duke Ellington.

ANSWER: Max **Roach** [or Maxwell Lemuel **Roach**]

[10m] The last track on *Jazz at Massey Hall* is a song played and written by this bebop musician titled “A Night in Tunisia.” This musician also wrote a song that involves singing an octave jump on the name of the title food.

ANSWER: Dizzy **Gillespie** [or John Birks “Dizzy” **Gillespie**] (The song is “Salt Peanuts.”)

[10e] *Jazz at Massey Hall* is the last recorded session with Gillespie and this saxophonist credited with inventing bebop alongside Dizzy Gillespie. This musician was nicknamed “Bird.”

ANSWER: Charlie **Parker** [or Charles **Parker** Jr.]

<Young Lee, Fine Arts - Jazz> ~20774~ <Editor: Young Lee>

12. While approaching one of these objects with a spaniel, Ronnie sings the song “Bertie, why do you bound.” For 10 points each:

[10h] Name this type of object that titles a short story in which a girl claims a man fled a house because he was hunted by a pack of dogs in the Ganges.

ANSWER: **window** [accept “The Open **Window**”]

[10m] “The Open Window” is a short story by this author, who wrote about the werewolf “Gabriel-Ernest” and a boy who develops a religion around his pet ferret in “Sredni Vashtar.”

ANSWER: **Saki** [or Hector Hugh **Munro**]

[10e] In Saki’s story “Tobermory,” Cornelius Appin is crushed by an elephant after supposedly trying to teach it irregular verbs in this language used by Herman Hesse.

ANSWER: **German** [or **Deutsch**]

<Andrew McCowan, Literature - British - Short Fiction> ~21014~<Editor: Jaimie Carlson>

13. This ethnic group has founded dozens of Swedish soccer teams, many of which use the wavy diagonal red, white, and blue stripes of its flag as a badge. For 10 points each:

[10m] Name this ethnic group whose language is used in the liturgy of the Chaldean (“kal-dee-uhn”) Catholic Church. In 2015, ISIS attempted to bulldoze the ruins of Nimrud, an ancient city founded by this ethnic group in Northern Iraq.

ANSWER: **Assyrians** [or **Sūrāyē** or **Suryoye** or **Ātōrāyē**; accept **Syriacs** or **Arameans** or **Syriac**-Arameans; reject “Syrians” or “Kurds”]

[10h] An alternate version of the Assyrian flag features a depiction of the sun with this unusual physical feature. A common motif in Zoroastrianism depicts the *fravashi* spirit in this way based on the faravahar.

ANSWER: having **wings** [accept **winged** sun; accept descriptions of it being stylized like a **bird** or **eagle**; prompt on having **feathers**]

[10e] The largest Assyrian diaspora community in the world emerged from the auto industry of this most populous city in Michigan.

ANSWER: **Detroit**

<Joel Miles, Geography - World> ~20964~ <Editor: Ganon Evans>

14. A 2016 report found that a third of genomics publications contain errors because Microsoft Excel automatically converts the names of genes into dates. For 10 points each:

[10m] A major offender is the gene *MARCH-1*, which encodes an enzyme that attaches this very common 76-residue peptide to proteins targeted for cellular destruction.

ANSWER: **ubiquitin**

[10e] Excel also autocorrects the names of septins, the proteins that divide the cytoplasm after this process of cell division, to dates in September.

ANSWER: **mitosis** [or **meiosis**; accept **cytokinesis**]

[10h] The gene *DECI*, which encodes one of these RNAs, was renamed to *DELECI* in 2021 to subvert Excel. Xist (“EX-ist”) is another example of these regulatory RNAs, which are bigger than small RNAs and are transcribed from introns.

ANSWER: **long noncoding** RNAs [or **lncRNAs** (“link-RNAs”); prompt on **noncoding** RNAs; prompt on **long** RNAs]

<Adam Silverman, Science - Biology> ~20877~ <Editor: Adam Silverman>

15. An entire floor of IBM machines in Baltimore’s Candler Building was devoted to handling paperwork from this program. For 10 points each:

[10m] Name this program begun during the New Deal. Alan Greenspan headed a commission that increased contributions to this program’s Trust Fund.

ANSWER: **Social Security** [accept **OAI** or **Old-Age Insurance** Program; or **Old-Age**, Survivors, and Disability **Insurance**; or **OASDI**]

[10e] This organization was pivotal to processing the 26 million Form 5’s needed to enroll people into Social Security. In 2009, this government agency floated ending Saturday delivery.

ANSWER: United States **Postal Service** [or **USPS**; or **US Mail**; accept **Post Office**]

[10h] An Oklahoma senator of this surname interrogated Frances Perkins over the “socialistic” nature of Social Security. A Tennessee senator of this surname opposed the Southern Manifesto.

ANSWER: **Gore** [accept Thomas **Gore** or Albert **Gore**]

<Michael Bentley, History - American - 1865-1945> ~20768~ <Editor: Michael Bentley>

16. The net displacement of a particle in a constant uniform field equals one-half this quantity multiplied by time squared. For 10 points each:

[10e] Name this quantity that multiplies mass to yield force in Newton's second law.

ANSWER: linear **acceleration** [prompt on a]

[10h] In the absence of an external field, the average magnitude of the displacement of a particle that freely diffuses according to a random walk scales with this function of the diffusion time.

ANSWER: **square root** of time [or time to the **one-half power**; prompt on root of time]

[10m] For a particle in a field whose potential is given by this statement, the displacement evolves sinusoidally with time. This statement can be given as "the second time derivative of x equals negative kx over m ."

ANSWER: **Hooke's** law

<Adam Silverman, Science - Physics> ~21231~ <Editor: David Bass>

17. In Bwete faith, the Kota people of Gabon rub sand on examples of these statues called ngulu ("nn-goo-loo") to aid in decision-making. For 10 points each:

[10m] Name these statues created by Central African peoples as well as Medieval Europeans that contain body parts or another object important to deceased family or religious figures.

ANSWER: **reliquary** [or **phylactery**; prompt on shrines; prompt on relics with "What are they stored in?"]

[10e] This artist claimed that a Fang reliquary was "more beautiful than the Venus de Milo." This Spanish Cubist denied that he copied a Pende mask for one of the prostitutes in his *Les Demoiselles d'Avignon*.

ANSWER: Pablo **Picasso**

[10h] A plinth along the back of Fang reliquaries give them the appearance of this action. A painted limestone statue of an Egyptian scribe from Saqqara is named for performing this action.

ANSWER: **seated** [accept word forms such as **sitting**; accept **squatting** or word forms such as appearing **squatted**; accept **Seated Scribe** or **Squatting Scribe**]

<Ganon Evans, Fine Arts - Sculpture> ~20801~ <Editor: Chandler West>

18. Li'l Bit leaves the sexually abusive Uncle Peck at the end of a Paula Vogel play titled for learning to do this activity. For 10 points each:

[10e] Name this activity, which the Black man Hoke Coleburn performs for Miss Daisy in a 1987 play that was adapted into a movie starring Morgan Freeman.

ANSWER: **driving** a car [or being a **chauffeur**; accept reasonable equivalents such as being a **driver** or **driving** someone around]

[10m] Alfred Uhry's *Driving Miss Daisy* is part of a trilogy of plays he wrote titled for this state's capital city. The deaf-mute John Singer lives in this state in Carson McCullers's novel *The Heart is a Lonely Hunter*.

ANSWER: **Georgia**

[10h] A chorus of drivers chants "STRIKE" after Agate announces that the title character has been killed in this play by a different author.

ANSWER: **Waiting for Lefty** (by Clifford Odets)

<Shahar Schwartz, Literature - American - Drama> ~21202~ <Editor: Chandler West>

19. A manual discovered in 2022 revealed that the powder these people used to become invisible was made from charred owls and turtles. For 10 points each:

[10e] Name these Japanese warriors who are popularly depicted throwing shurikens.

ANSWER: **ninja** [or **shinobi**]

[10m] Various ninja attempted to assassinate this first unifier of Japan. He won the Battle of Nagashino and overthrew the Ashikaga shogunate.

ANSWER: Oda **Nobunaga** [or **Oda** Nobunaga]

[10h] Sugitani Zenjubo, a ninja who specialized in these weapons, tried to assassinate Oda with one in 1571. Troops wielding these weapons took up position along zig-zagging palisades at the Battle of Nagashino.

ANSWER: **arquebuses** [or **tanegashima**; or **matchlocks**; or **firelocks**; prompt on **guns** or **firearms**; reject “flintlocks”]

<Yingzhi Nyang, History - World - Asian> ~20398~ <Editor: Jordan Brownstein>

20. The first gallery for this type of art was Amsterdam’s Dead End Gallery, though many of its works still depicted six fingers on each hand. For 10 points each:

[10e] Name this type of art created using programs such as DALL-E and Midjourney.

ANSWER: **AI** art [or **AI**-generated images or **computer**-generated images; accept any answer indicating artworks or photos created by a **computer** or **machine**]

[10m] DALL-E relies on this type of model that involves adding or removing noise in an image to generate new pictures. The first AI image model to make its source code public is named for a “Stable” form of this type of model.

ANSWER: **diffusion** model [or **diffusion** probabilistic model; accept latent **diffusion** model; accept Stable **Diffusion**]

[10h] In December 2022, this website started removing images protesting AI artwork after its official policy became an opt-in for “NoAI Tagging.” In 2021, Epic Games acquired this portfolio website.

ANSWER: **ArtStation**

<Ethan Ashbrook, Other - Other Academic and General Knowledge> ~20491~ <Editor: Ganon Evans>

21. *Composer and piece required.* This symphony’s 40-minute first movement marked *Kräftig. Entschieden* depicts the awakening of Pan and a Bacchic procession. For 10 points each:

[10h] Name this D minor symphony finished in 1895. Its six movements typically take around 100 to 110 minutes to perform, making it the longest symphony in the standard repertoire.

ANSWER: *Symphony No. 3 in D minor* by Gustav **Mahler** [or **Mahler**’s **3rd** Symphony; or **Mahler 3**; prompt on partial answer]

[10m] Mahler called the fifth movement of his 3rd Symphony “What [these beings] Tell Me” before dropping the movement titles for publication. Alban Berg’s *Violin Concerto* was dedicated “to the memory of” one of these beings.

ANSWER: **angels** [or **Engels**]

[10e] The opening French horn theme of Mahler’s 3rd closely mimics a pattern in this other Romantic composer’s first symphony. This composer also wrote a famous namesake lullaby.

ANSWER: Johannes **Brahms** [accept “**Brahms**’s Lullaby”]

<Ethan Ashbrook, Fine Arts - Music - Romantic> ~20540~ <Editor: Young Lee>