

2022 SHOW-ME

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Packet 3

1. In a work set in one of these locations, a lady personifying Philosophy discusses free will with Boethius [bo-EE-thee-us]. A character informs Crito that he owes a rooster to Asclepius in the *Phaedo*, which is set in one of these locations. Before leaving for one of these locations, a gadfly claims that “the (*) unexamined life is not worth living.” A character responds to Meletus in his namesake *Apology* before being sent to one of these places. After being convicted of corrupting the youth, a philosopher drinks hemlock in one of these locations. For 10 points, Socrates died as an inmate in what type of location?

ANSWER: **prisons** [or **jails**; accept other obvious equivalents like **jailhouses**] (The first line refers to *The Consolation of Philosophy*.)

<Philosophy — Joel Miles> [Ed.]

1. In his book *The Open Veins of Latin America*, Eduardo Galleano argues that returns on Dutch investments in this crop were responsible for the growth of capital in Europe. For 10 points each:

[E] Name this crop which was stored as molasses or distilled into rum after being harvested in the Caribbean.

ANSWER: **sugarcane**

[H] Caribbean sugar plantations were centered on these estates that evolved from the encomienda system and bound workers with debt to the land. Hernán Cortés was the first patrón of one of these estates in Oaxaca [wha-HAH-kuh].

ANSWER: **haciendas** [accept the **hacienda** system; accept **haciendas** azucareras]

[M] On this island, the *colono* sugar farmer class emerged with the opening of its first sugar mill in 1873. Ponce de León was the first governor of this island, which was defended by a fort called El Morro.

ANSWER: **Puerto Rico**

<World History — Ganon Evans> [Ed. Louis Li]

2. One of these people wonders “when the Allemands would get busy” before the title action of one poem fails. A poem that describes these people’s eyes “[shining] the holy glimmers of good-byes” claims that they are given “No mockeries... no prayers nor bells.” One of these people flounders “like a man in fire or lime” before drowning before the narrator’s “helpless sight” in one poem. An (*) “ecstasy of fumbling” is followed by a member of this profession “guttering, choking, drowning” in a poem that denounces the title “old Lie.” For 10 points, name this profession described in “Dulce et Decorum Est” by Wilfred Owen, who died in World War I.

ANSWER: World War I **soldiers** [accept equivalent answers like **army** men or **infantrymen**; accept “Anthem for **Doomed Youth**”; reject answers mentioning wars other than World War I or The Great War] (The poem referenced in the first clue is “Counter-Attack” by Siegfried Sassoon.)

<Poetry — Connor Lee> [Ed. Joel Miles]

2. Donna Tartt's book *The Goldfinch* was inspired by a Carel Fabritius painting which disappeared after a gunpowder arsenal exploded in this city. For 10 points each:

[H] Name this city where the painting *The Little Street* was produced by the artist of *The Milkmaid*. Peasants stand near herring boats on a riverbank in a landscape of this city.

ANSWER: **Delft** [accept *View of Delft*] (The unnamed artist is Jan Vermeer.)

[E] The Virgin Mary watches over two children playing with a goldfinch in one of this artist's many landscapes with Madonnas. Plato points a finger in the air while walking in this Renaissance artist's *The School of Athens*.

ANSWER: **Raphael** [or **Raffaello** Sanzio da Urbino]

[M] Paintings of goldfinches appear alongside the now-extinct passenger pigeon and great auk in this French-American naturalist's collection *Birds of America*. A modern bird conservation group is named after him.

ANSWER: John James **Audubon** [accept the **Audubon** Society]

<Visual Fine Arts — Ganon Evans> [Ed. Gabe Forrest]

3. **John von Neumann pioneered an early design for these components in his paper *First Draft of a Report on the EDVAC*. Almost all of these components follow the cycle of first fetching memory, then decoding instructions, then executing actions. When applying these components to a motherboard, a thin layer of thermal paste is added to prevent them from (*) overheating and bottlenecking. A computer's ability to multi-thread comes from the development of multiple cores in these hardware components. For 10 points, Apple's M2 and Intel's i9 are examples of what central components that execute a program's instructions?**

ANSWER: **CPUs** [or **central processing units** or **central processors** or **microprocessors**; prompt on **processors**]

<Computer Science — Yash Mandavia> [Ed. Jason Xu]

3. The introduction to a translation of this poet's work quotes Aristotle, who says, "[This author] says that to die is evil: so the gods judge. For they do not die" and explains the translator's use of brackets. For 10 points each:

[M] Name this poet who Anne Carson translated in the collection *If Not, Winter*. This ancient Greek poet from Lesbos described the title "Deathless...child of Zeus" in "Hymn to Aphrodite."

ANSWER: **Sappho** of Lesbos

[H] Anne Carson also wrote about the ancient Greeks in one of these works "*of Red*," which opens "He came after Homer and before Gertrude Stein," referencing an author who wrote one of these works about her lesbian lover.

ANSWER: **autobiography** [or **autobiographical**; prompt on **biography** or **biographical**; accept ***Autobiography of Red***; accept ***The Autobiography of Alice B. Toklas***]

[E] Anne Carson's "The Glass Essay" details the speaker's obsession with this author's use of the word "whacher" [watcher], and describes reading the part in this author's novel *Wuthering Heights* "where Heathcliff clings at the lattice in the storm."

ANSWER: **Emily Brontë** [prompt on **Brontë**]

<Mixed Literature — Rachel Ezrielev> [Ed. Joel Miles]

4. **Uncooked rice, coconut shells, and dry almonds are part of the eight articles followers of this religion focus prayer through. Followers of this religion consecrate idols to represent the "five auspicious events" like birth and omniscience. This religion emphasizes right faith, right knowledge, and right conduct, called *ratnatraya*. Followers of this religion's (*) Svetambara sect often wear *muhapatti* mouth covers, while its Digambara sect is called "sky-clad" for its followers' lack of clothing. Mahavira was the last of this religion's 24 Tirthankaras. For 10 points, name this Indian religion that stresses *ahimsa*, or nonviolence.**

ANSWER: **Jainism** [or **Jain** Dharma]

<Religion — Connor Lee> [Ed. Ganon Evans]

4. Some groups of these insects have evolved to “farm” various fungi. For 10 points each:

[E] Name these colonial insects of the family Formicidae. They come in several forms including “workers,” “soldiers,” and “queens.”

ANSWER: ants

[M] This group of ants practice highly sophisticated fungal agriculture using three different types of workers. These ants get their common name from slicing apart a certain food source.

ANSWER: leafcutter ants

[H] Other groups of ants perform “dairy farming” by protecting these sap-sucking insects and harvesting their nutrient-rich honeydew secretion.

ANSWER: aphids [or greenflies or blackflies or Aphidoidea]

<Biology — June Yin> [Ed.]

5. Holders of this title owned the summer residence of Norbulingka. Holders of this position presided over the Ganden Phodrang and were subject to kidnapping attempts by the Dzungars. The name for this position originated from Altan Khan describing their “ocean of wisdom.” Because of government control over the Golden Urn selection process, this current head of the Yellow (*) Hat School has declined to create a *tulku*, or rebirth. The current holder of this position has been unable to occupy the Potala Palace after the People’s Liberation Army invaded Lhasa in 1959. Tenzin Gyatso is the 14th incarnation of, for 10 points, what spiritual leader of Tibet?

ANSWER: Dalai Lama

<World History — Ganon Evans> [Ed. Louis Li]

5. This theorist argued that the distance between moving heavenly spheres like the Sun created ratios that were the root of musical harmony. For 10 points each:

[H] Name this music theorist who discovered that halving a string raises its pitch by an octave when struck or plucked after listening to a blacksmith’s hammer.

ANSWER: Pythagoras of Samos

[E] Pythagoras established the perfect fifth as an easy base for this activity. This activity can involve modifying string tightness with pegs to match the pitch of a two-pronged fork.

ANSWER: tuning [accept tuning fork]

[M] Ancient Greeks would study and compose songs called *teletai* based on this figure. An “Infernal Galop” that was adapted into the Can-Can appears in a Jacques Offenbach opera about this figure.

ANSWER: Orpheus [accept Orpheus in the *Underworld*]

<Auditory Fine Arts — Ganon Evans> [Ed.]

Note to players: Description acceptable.

6. After this event, one character calls another names that Miss Stephanie says “wild horses could not bring her to repeat” and spits in his face. During this event, Dolphus Raymond drinks Coca-Cola out of a sack to make people think he is an alcoholic. A central figure in this event is asked if he is “good at busting up (*) chiffarobes with one hand” due to his left arm, which was mauled in a cotton gin. This event occurs after Mayella Ewell falsely accuses Tom Robinson of rape. For 10 points, Atticus Finch serves as the defense attorney in what central event of a book by Harper Lee?

ANSWER: the trial from To Kill a Mockingbird [accept the trial of Tom Robinson before mention; prompt on incomplete answers like “the trial”]

<Long Fiction — Joel Miles> [Ed.]

6. As Georg Cantor once said, all infinities are big, but some infinities are bigger than others. For 10 points each:

[H] The cardinalities of different infinite sets can be expressed by a sequence of numbers denoted by this letter. The natural numbers have cardinality “this letter”-zero.

ANSWER: **aleph**

[M] Sets with cardinality aleph-zero, like the integers and the rational numbers, have this property, since they can be mapped one-to-one to the natural numbers.

ANSWER: **countable** [or **countability**; or **countably** infinite]

[E] Cantor’s diagonal argument shows that the set of these numbers is not countable. These numbers return positive values when squared, as opposed to imaginary numbers.

ANSWER: **real** numbers

<Math — Joy An> [Ed.]

7. **The motion of a rotating torque-free rigid body is constrained by kinetic energy and the three components of this quantity by Poinsoot’s construction. Values of this quantity for an orbital are determined by the azimuthal quantum number. A line joining a planet and the Sun sweeps out equal areas during equal intervals of time due to the (*) conservation of this quantity by Kepler’s 2nd Law.** This quantity, whose time derivative is torque, is equal to the moment of inertia multiplied by the angular velocity. For 10 points, name this quantity symbolized **L**, which is the rotational analogue of linear momentum.

ANSWER: **angular momentum** [accept **rotational momentum** until “rotational”; prompt on **L**; reject “momentum” or “spin”]

<Physics — Yash Mandavia> [Ed. June Yin]

7. Answer the following about the many titles of Jesus, for 10 points each:

[H] In the Book of Revelation, John weeps when Jesus opens the scroll of God’s judgment, revealing him as the “Lion” of this tribe. Solomon and David come from this one of the surviving two tribes of Israel.

ANSWER: Tribe of **Judah** [accept the Lion of **Judah**; prompt on **Judea**]

[E] In contrast, Jesus is also known as this gentler animal of God, as he is the perfect and ultimate sacrifice. Isaiah 53 describes a virtuous servant facing his death like one of these animals led to the slaughter.

ANSWER: **lamb** [accept the **Lamb** of God; accept **sheep**]

[M] Another title for Jesus is the Alpha and the Omega, two letters that are inscribed on a candle lit on this holiday. Maundy Thursday in the week preceding this holiday is celebrated with a foot-washing ceremony.

ANSWER: **Easter** Sunday

<Religion — Vik Wei> [Ed. Ganon Evans]

8. **Robert Murray’s offer to pay for the damages of this event was rejected. This event inspired a future incident in which the *Peggy Stewart* was burned in Annapolis. This event was apocryphally incited by the cry, “this meeting can do nothing to save the country.” Thomas Hutchinson refused to grant a permit to return (*) East India Company products before this event, whose aftermath prompted the Intolerable Acts. During this event, the *Dartmouth* and *Eleanor* were boarded by Sons of Liberty dressed as members of the Mohawk tribe.** For 10 points, name this event in which colonists protested taxes on a “wretched weed” by throwing it into a Massachusetts harbor.

ANSWER: **Boston Tea Party**

<American History — Ganon Evans> [Ed. Louis Li]

8. The nearly vertical Precipice Trail can be found in this national park, which is also home to many metal rungs on its Beehive Loop. For 10 points each:

[M] Name this national park located on Mount Desert Island in Maine. The tallest mountain in this national park, Cadillac Mountain, is the first to see the sunrise in the U.S. for parts of the year.

ANSWER: **Acadia** National Park

[H] Acadia National Park and Bar Harbor lie southwest of this bay that separates New Brunswick and Nova Scotia. The Mi'kmaq people fished in this bay on which Saint John was settled.

ANSWER: Bay of **Fundy**

[E] The Katahdin Woods north of Acadia is a more popular spot to see these animals. This largest member of the deer family is common in boreal forests on the U.S.-Canada border.

ANSWER: **moose** [prompt on **elk**]

<Geography — Andrew Gao> [Ed. Ganon Evans]

9. **A World Hockey Association team in this state was where Wayne Gretzky began his career. In 1984, Robert Irsay secretly moved an NFL franchise to this state overnight, where they began playing at the RCA Dome. A shooting guard for an NBA team in this state is nicknamed the “Knick Killer” for his clutch three-pointers. Victors like Hélio Castroneves usually drink (*) milk after winning a Memorial Day weekend sporting event in this state’s city of Speedway. Players for this state’s NFL team, which is coached by Frank Reich, include Darius Leonard and Jonathan Taylor. For 10 points, name this state home to the NBA’s Pacers and the NFL’s Colts.**

ANSWER: **Indiana** [accept **Indiana** Pacers; do not accept or prompt on franchise names alone, or answers that include “Indianapolis” or “Indy”]

<Pop Culture — Neal Joshi> [Ed. Ganon Evans]

9. For 10 points each, answer the following about the lexicon of Edgar Allen Poe:

[E] Poe wrote this poem about a bird who repeatedly croaks “Nevermore.” This poem also describes a “pallid bust of Pallas just above my chamber door.”

ANSWER: “The **Raven**”

[M] This poem by Poe describes the “tintinnabulation” of its title objects that “[Keep] time, time, time, / In a sort of Runic rhyme.” The second line of each stanza in this poem describes those things as “gold,” “silver,” “iron,” and “brazen.”

ANSWER: “The **Bells**”

[H] In Poe’s short story, “The Murders in the Rue Morgue” C. Auguste Dupin uses “ratiocination”

[ra-TEE-oh-sen-AY-shun] to deduce that Madame L’Espanaye was stuffed up a chimney by one of these animals. In another Poe short story, Hop-Frog dresses up royalty as these animals for a masquerade.

ANSWER: **orangutans**

<Mixed Literature — Andrew Gao> [Ed. Joel Miles]

10. **Chris Burden was nailed shirtless to one of these objects in his performance art piece *Trans-Fixed*. Works made from these objects are found at an Art Reserve in Nebraska, where Jim Reinders created a replica of Stonehenge using them. The Aztec gods are invoked in a 27-panel mural series depicting laborers creating these objects by Diego Rivera. One of these objects is declared to be “more beautiful than the Victory of Samothrace” in the (*) Futurist Manifesto. 1960s hippies often had brightly-painted examples of these objects with their logos replaced by a peace sign. For 10 points, name these objects manufactured by companies like Volkswagen.**

ANSWER: **automobiles** [or **cars**; or **minibuses**; accept **Car**henge; accept specific brands of cars]

<Visual Fine Arts — Joy An> [Ed. Gabe Forrest]

10. May 3rd, 1791 saw the adoption of the world's second-ever modern constitution. For 10 points each:
[M] The constitution was adopted by the "commonwealth" between this country and its northern neighbor Lithuania. Soon after, this country was partitioned three times among its neighbors.

ANSWER: **Poland** [accept Commonwealth of **Poland**; accept **Polish**-Lithuanian Commonwealth]

[E] The May 3rd Constitution was inspired by this other country's constitution, which was written in 1787 to replace its Articles of Confederation.

ANSWER: **United States** of **America** [or **U.S.A.**; accept any underlined portion]

[H] The May 3rd Constitution was nullified due to Russian bribery at a 1793 meeting of this parliament of the Commonwealth. It shares its name with the lower house of Poland's modern-day parliament.

ANSWER: **Sejm** ["same"] [accept Grodno **Sejm**]

<European History — June Yin> [Ed. Louis Li]

11. In a work by this author, two characters "lose their shanks" in a cycling accident in the Ardennes. One of this playwright's characters speaks about the "works of Puncher and Wattman" after being instructed to "Think!" In a play by this author, Nagg and Nell are unable to kiss because they live in dustbins, while in another of his plays two characters swap (*) hats with each other while standing next to a withered tree. This author of *Endgame* wrote a play in which Lucky is led on a rope by Pozzo [POT-so] while expecting the arrival of a figure who never appears. For 10 points, name this absurdist Irish playwright who wrote *Waiting for Godot* [GOD-oh].

ANSWER: Samuel **Beckett**

<Drama — Neal Joshi> [Ed. Joel Miles]

11. "Pillow" examples of this substance are extruded at mid-ocean ridges. For 10 points each:

[E] Give this term for molten rock on the Earth's surface. It is contrasted with magma.

ANSWER: **lava** [accept pillow **lavas**]

[M] This volcanic rock names a type of fast-flowing lava with a low proportion of silica [SILL-ih-kuh]. The solidification of this rock creates shield volcanoes in places like Hawaii.

ANSWER: **basalt** [buh-SALT] [accept **basaltic** lava or rock]

[H] This Hawaiian term refers to lava flows with a rough, jagged surface that is difficult to walk across. It is contrasted with a smoother type of lava known by a different name.

ANSWER: **a'a** [ah-ah] (The other type is pahoehoe [puh-HO-ay-HO-ay].)

<Earth Science — June Yin> [Ed.]

12. All possible versions of these objects form a non-Abelian subgroup of the symmetric group S48. Official events using these objects include FMC and 3BLD. Jessica Fridrich developed the CFOP method for use on these objects. Ways of manipulating these objects are denoted with the uppercase and lowercase letters (*) F, B, U, D, L, and R. Variations of these objects include the Pyraminx. Beginners usually approach these objects layer-by-layer, and may first learn to solve a single face. A Hungarian architecture professor created, for 10 points, what colorful physical puzzles that are the subject of speedcubing competitions?

ANSWER: **Rubik's cubes** [prompt on **cubes** and **speedcubing**]

<Other — Joy An> [Ed. Ganon Evans]

12. This author wrote about the unnamed two-hundred-year-old dictator of a Caribbean island in *The Autumn of the Patriarch*. For 10 points each:

[H] Name this author. In another work, this author wrote about Pelayo, who keeps the title senile character in a chicken coop.

ANSWER: Gabriel **García Márquez**

[M] This lifelong enemy of Gabriel Garcia Marquez fictionalized the day of Rafael Trujillo's assassination in his novel *The Feast of the Goat*. This author also wrote *Aunt Julia and the Scriptwriter*.

ANSWER: Mario **Vargas Llosa** [prompt on "Llosa" alone]

[E] Vargas Llosa and Garcia Marquez are both authors who blend fantasy with the careful depiction of daily life, a genre known as the "magical" form of this broader style. This style seeks to represent things as they actually are.

ANSWER: **realism** [accept magical **realism** or magic **realism**]

<Long Fiction — Tanay Bodducherla> [Ed. Joel Miles]

13. **This object appears in the upper right of a postage stamp with the words "In the beginning, God..." Frank Borman took a black-and-white photograph named for this object, which was reproduced by William Anders with color film. Reflecting sunlight caused the appearance of faint bands that cut across a photo of this object in which it takes up less than a pixel in one of those bands. A photo of this object titles the sequel of (*) Cosmos, a book by Carl Sagan. The surface of the moon fills the bottom of a photo titled the "rise" of this object.** For 10 points, the photographs *The Blue Marble* and *Pale Blue Dot* depict what planet?

ANSWER: **Earth** [accept *Earthrise*]

<Other Fine Arts — Joy An> [Ed. Ganon Evans]

13. Annie Malone's "Poro agents" who sold products for this substance included the first self-made female millionaire, Madame C.J. Walker. For 10 points each:

[E] Name this substance, which as part of the Black is Beautiful movement, was stylized into afros, cornrows, and dreadlocks.

ANSWER: human **hair**

[H] This activist advised "Do not remove the kinks from your hair; remove the kinks from your brain" in support of natural Black hair. This activist founded the Black Star Line as part of the "Back to Africa" movement.

ANSWER: Marcus **Garvey**

[M] The Marcel Wave and Josephine Baker's Eton Crop were hairstyles popular amongst this generation of women in the 1920s exemplified by Clara Bow's "It Girl" wearing revealing dresses and androgynous hairstyles.

ANSWER: **flappers**

<American History — Ganon Evans> [Ed. Louis Li]

14. **All-girl choruses in this city inspired Alcman to codify the lyric genre of "maiden songs." This city did not participate in one battle due to the Carneia Festival. Compulsory women's education was established by this city's ruler Cleomenes. Women were banned from wearing gold in this city where the agoge program trained men. The *Kaidas* was a cliff that this city's residents allegedly (*) threw unhealthy babies off of. This city's queen Gorgo was married to a king who died fighting Xerxes the Great's Immortals at Thermopylae named Leonidas.** For 10 points, name this Pelopenessian, militaristic city-state that rivaled Athens.

ANSWER: **Sparta**

<European History — Ganon Evans> [Ed. Louis Li]

14. Answer questions about famous swines in mythology, for 10 points each:

[E] Because he got hungry, the pig was the twelfth and last animal to finish a race hosted by the Jade Emperor that determined this twelve-year calendar. 2022 is the year of the Tiger in this calendar.

ANSWER: Chinese **zodiac** [prompt on the Chinese calendar]

[H] This nasty piggy was sent to ravage an Aetolian [ee-tol-EE-an] kingdom by Artemis after King Oeneus [EE-nee-us] forgot to include her in his offerings. This boar was hunted by heroes like Meleager and Atalanta.

ANSWER: **Calydonian** Boar

[M] This Norse goddess's servant Óttar turned into the boar Hildisvíni for her to ride into battle. This daughter of Njord had a similarly named brother who owned a boar whose bristles glowed in the dark.

ANSWER: **Freyja** [or **Freya**; or **Freyia**; or **Freja**; reject "Freyr"]

<Mythology — Gigi Chen> [Ed. Ganon Evans]

15. A process synthesizing this compound uses PEP carboxykinase [pehp car-BOX-ee-KAI-nayss] in its rate-controlling step. Two subunits of this compound comprise a molecule named after germinating seeds, or malt. This compound is first acted upon by hexokinase [HEX-oh-KAI-nayss] during its breakdown within the (*) cytosol [SIGH-tuh-sawl]. The human body polymerizes this compound into glycogen [GLY-kuh-jen], while plants polymerize this compound into cellulose and starch. High blood levels of this compound are caused by impaired insulin signaling in diabetes. For 10 points, name this six-carbon sugar produced by photosynthesis.

ANSWER: **glucose** [accept D-**glucose** or **dextrose** or D-**glucopyranose**; prompt on $C_6H_{12}O_6$]

<Biology — Aatreya Bhattacharya> [Ed. June Yin]

15. For 10 points each, answer the following about Debra Austin, the first Black principal dancer at a major ballet company:

[H] Austin's accomplishment is sometimes misattributed to this contemporary dancer who was the first Black principal dancer at the American Ballet Theatre.

ANSWER: Misty **Copeland**

[M] One of Austin's lead roles was for Filippo Taglioni's *La Sylphide*, which was written to show off this technique. A special box in ballet shoes helps dancers perform this technique which involves moving on the tips of the toes.

ANSWER: **en pointe** [on pwant]

[E] Austin was known for her ability to perform these types of moves. Examples of these steps in ballet include the *pas de chat* and *grand jeté* in which both feet leave the ground.

ANSWER: **jumps** [or **leaps**]

<Other Fine Arts — Vik Wei> [Ed. Ganon Evans]

16. Igorot people hang coffins off cliffs in this country, where tourists may kayak into an underground river in Puerto Princesa National Park. A fast food chain from here serves hot dogs with spaghetti as well as yamburgers and chickenjoy. Vans called jeepneys are common in this country, which produces Abacá hemp. The Celebes and (*) Sulu seas separate some of this country's islands. Banana ketchup is from this country and is served at the fast food chain Jollibee. Along with Visayas and Mindanao, this country's main three islands include Luzon, home to Quezon City. Tagalog is spoken in, for 10 points, what country with capital at Manila?

ANSWER: **Philippines** [or Republic of the **Philippines**; or Republika ng **Pilipinas**]

<Geography — Andrew Gao> [Ed. Ganon Evans]

16. Answer the following about Boris Johnson's resignation, for 10 points each:

[M] In May 2022, Boris Johnson was fined for violating his own COVID-19 regulations during one of these events at 10 Downing Street in 2020. Finnish PM Sanna Marin attracted controversy for her conduct at one of these events.

ANSWER: **parties** [accept equivalents like social **gatherings**; accept **Partygate**]

[E] In June 2022, 41 percent of this body's Conservative members submitted no-confidence votes against Johnson. This body, divided into the House of Lords and the House of Commons, meets in the Palace of Westminster.

ANSWER: British **Parliament** [or **Parliament** of the United Kingdom]

[H] Johnson resigned in July 2022 shortly after several ministers left his cabinet, including this former Chancellor of the Exchequer. This MP was announced as Liz Truss's successor in October 2022.

ANSWER: Rishi **Sunak**

<Current Events—Connor Lee> [Ed.]

Note to Players: Composer and Genre required.

17. **One of these works features an A-flat theme in its Adagio Cantabile second movement and was dedicated to Karl von Lichnowsky. The left hand plays alternating fifths while the right plays a C-sharp minor arpeggio in one of these works' third movements. Another one of these works includes a three-voice fugue in a non-standard 4th movement and is nicknamed (*) Hammerklavier. One of these works is marked as "quasi una fantasia" and begins with an adagio sostenuto first movement inspired by the reflections on Lake Lucerne. For 10 points, name these works written for a keyboard instrument that includes "Pathetique" and "Moonlight."**

ANSWER: **piano sonatas** by Ludwig van **Beethoven** [prompt on partial answers]

<Auditory Fine Arts — Danny Peelen> [Ed. Ganon Evans]

17. For 10 points each, name these results in electrostatics that have analogs for gravity:

[M] This law describes the electric field due to one or more point charges. A constant appearing in this law equals one over 4 pi times the permittivity.

ANSWER: **Coulomb's** law

[E] Coulomb's law states that electrostatic force is proportional to the inverse square of this quantity. Gravitational force drops off with the square of this quantity by Newton's law of universal gravitation.

ANSWER: **distance** [accept **radius**; accept **displacement**]

[H] The differential form of this law holds that the divergence of an electric field is equal to the charge density divided by the permittivity. Newton used its analogue for gravity to prove the shell theorem.

ANSWER: **Gauss's** law [accept **Gauss's** flux theorem; reject "Gauss's law for magnetism"]

<Physics — Vincent Wang> [Ed. June Yin]

18. **One of these people has to be spoon-fed fish after refusing to cut green ribbons that he had tied too tightly. A character convinces a group of these people not to execute him by claiming to have caused an eclipse on June 21. Hank Morgan is captured by these people after traveling back in time in a book by (*) Mark Twain. A character becomes one of these people at an inn that he mistakes for a castle before fighting windmills that he mistakes for giants. For 10 points, *Don Quixote* and *A Connecticut Yankee in King Arthur's Court* are parodies of tales about what kind of people who are the subjects of chivalric romances?**

ANSWER: **knights** [or **knights-errant**; prompt on **King Arthur's court** or **King Arthur's men** or **Englishmen** with "what occupation did those people have?"]

<Mixed Literature — Joy An> [Ed. Joel Miles]

18. Due to France's support for Chad in the Toyota War, this man supported the bombing of a French airline's Flight 772. For 10 points each:

[E] Name this leader of Libya and author of *The Green Book* who was killed in Sirte during Libya's 2011 civil war.

ANSWER: Muammar **Gaddafi** [or **Qaddafi** or **Kaddafi** or Muammar Muhammad Abu Minyar al-**Gaddafi**]

[H] Gaddafi accepted responsibility for the bombing of Pan Am Flight 103 over this Scottish town. The Helsinki warning was received before that bombing named for this town.

ANSWER: **Lockerbie**, Scotland [accept **Lockerbie** bombing]

[M] After Pan Am Flight 73 was hijacked on the ground in this country, Gaddafi paid the American victims \$150 million. Another act of terrorism saw this country's PM Benazir Bhutto assassinated in 2007.

ANSWER: **Pakistan** [or Islamic Republic of **Pakistan** or Jamhuryat Islami **Pakistan**]

<World History — Andrew Gao> [Ed. Ganon Evans]

19. **The heaviest natural element in this group has a half-life of only 8.1 hours, making it the rarest element on Earth. This group contains the most recently discovered element, named for Tennessee. An element in this group named after the Greek word for "stench" must be stored in sealed vials due to its volatility. All but the lightest element in this group form (*) strong binary acids with hydrogen.** This group contains the only solid nonmetal at standard conditions. This group's elements have very high electron affinities due to their seven valence electrons. For 10 points, name this highly reactive group that includes fluorine and chlorine.

ANSWER: **halogens** [or group **17**; reject "group VII"] (The third sentence refers to bromine.)

<Chemistry — June Yin> [Ed.]

19. Grushnitsky falls off a cliff in the Caucasus during one of these events in Mikhail Lermontov's *A Hero of Our Time*. For 10 points each:

[E] Both Lensky from *Eugene Onegin* [oh-NAY-gin] and his creator Alexander Pushkin died during what type of event, in which two men pace apart from each other then shoot?

ANSWER: **duels** [accept word forms such as **dueling**]

[M] The nihilist doctor Bazarov treats Pavel's leg after wounding him in a duel in this author's novel *Fathers and Sons*. This author's time with peasants inspired his collection *A Sportsman's Sketches*.

ANSWER: Ivan **Turgenev** [ee-VAHN tur-GAIN-yev]

[H] The protagonist of this Fyodor Dostoyevsky book believes he is dueling a policeman by bumping into him on the street in its section "Apropos [a-pruh-POH] of the Wet Snow," and rants about the Crystal Palace and ideal living from the title location.

ANSWER: **Notes from Underground** [or *Notes from the Underground* or *Letters from the Underworld*]

<Long Fiction — Ganon Evans> [Ed. Joel Miles]

20. **Abdul the Munshi taught this ruler Hindi. The phrase "We are not Amused" was popularized under this ruler, who gifted the Resolute Desk to the White House. Flora Hastings took over from John Conroy the Kensington System of control over this ruler. To spite Alexander II, the Royal Titles Act granted this ruler a position and a crown made from the (*) Koh-i-Noor Diamond.** The death of this ruler's son Leopold was due to her "curse" of hemophilia. This ruler popularized chloroform during childbirth while having kids like Edward VII with her husband Prince Albert. For 10 points, name this British queen who ruled over the majority of the 1800s.

ANSWER: Queen **Victoria** [accept **Victorian** Era]

<European History — Ganon Evans> [Ed.]

20. *Homo erectus* differed from earlier *Australopithecus* hominids by holding onto these objects after use. For 10 points each:

[E] Name these objects which enable humans and some primates to interact with their environment. Basic examples include hammers and axes.

ANSWER: **tools**

[M] This thinker observed monkeys using stones to open nuts in his book *The Descent of Man*. Herbert Spencer applied this thinker's ideas to society, which were then used to justify eugenics.

ANSWER: Charles (Robert) **Darwin**

[H] Jane Goodall observed chimpanzees using grass to "fish" for termites during her seven decades of research in this Tanzanian national park. Kasakela chimps murdered Kahama chimps in a four-year animal war in this park.

ANSWER: **Gombe** (Stream) National Park

<Social Science — Ganon Evans> [Ed. June Yin]