



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 12 - Tossups

1. In 1967, an activist of this ethnicity known as King Tiger seized a county courthouse as part of the Land Grant Movement. The next year, students of this ethnicity staged “blowouts” to protest racism. A group called PASSO helped people of this ethnicity seize political power in Crystal City against Ranger intimidation. 17 youths of this ethnicity were arrested following the 1942 Sleepy Lagoon murder. An activist of this ethnicity originated the slogan (*) “Yes we can” and led the NFWA in a strike in Delano against grape growers. Farmworkers of this ethnicity were the majority of targets of the INS following the end of the Bracero program. For 10 points, name this ethnicity of activists Dolores Huerta and Cesar Chavez.
ANSWER: Chicano [or Mexican-American; or Chicana; or Chicanx; or Xicano; or Xicanx; or Indohispano; prompt on Latino or Latin-American or Latinx or Hispanic or American] (King Tiger was the nickname of Reies Tijerina.)

<Michael Bentley, History - American - 1945+> ~24803~ <Editor: Michael Bentley>

2. Fredrik Ullén recorded a set of 100 works in this genre by Kaikhosru Shapurji Sorabji (“KAI-kohs-roo SHAH-pour-jee soh-ROB-jee”). The final work in a collection of pieces in this genre begins with the right hand playing eighth notes (read slowly) “D-flat, C, B-flat, A, B-flat” while the right index finger and thumb alternate in sixty-fourth-notes between D-flat and F and is titled “Chasse-neige” (“shas-nehj”). Carl (*) Czerny (“CHAIR-nee”) collected many works in this genre in collections such as *The School of Velocity* and *The Art of Finger Dexterity*. Frédéric Chopin (“cho-PAN”) composed a “Revolutionary” piece in this genre, and Franz Liszt composed a set of 12 “Transcendental” ones. For 10 points, name these pedagogical musical pieces that take their name from the French for “study.”

ANSWER: étude [accept study or studies until “study” is read; accept *100 Transcendental Studies* or *Études transcendantes* or *Études transcendentales* or “Revolutionary Étude” or *Transcendental Études* or *Études d'exécution transcendante*]

<Benjamin Chapman, Fine Arts - Music - Romantic> ~25471~ <Editor: Young Lee>

3. In Eastern Orthodox services, an object symbolically belonging to one of these people is used to cut off leavened bread called the Lamb. Before meeting with one of these people, Peter has a vision of many animals descending from heaven in a sheet. In Acts, the first Gentile that Paul converts to Christianity is one of these people named (*) Cornelius. These people mockingly shout “Hail, King of the Jews!” after creating the Crown of Thorns. In Matthew 28, these people “shook and became like dead men” after being awoken by the Resurrection. One of these people named Longinus causes blood and water to emerge from the final Holy Wound with his lance. For 10 points, name these people who physically crucified Jesus.

ANSWER: **soldiers** [accept **centurions**; accept **guards**; prompt on **Romans** or **Gentiles** with “Of what profession?”]

<Ganon Evans, RMP - New Testament> ~25957~ <Editor: Athena Kern>

4. To treat malaria, hydroxychloroquine (“hydroxy-CLORE-oh-quin”) accumulates at these cellular structures and blocks their activity. Organelles named for being “related” to these structures include melanosomes, vacuoles, and other vesicles containing proton pumps. Endocytic vesicles eventually fuse with these structures at the end of a pathway that recycles transmembrane receptors. At the *trans*-Golgi, any phosphatases, lipases (“LIE-pazes”), or proteases that are tagged with (*) mannose-6-phosphate are trafficked into these structures. Large vesicles containing defective proteins are absorbed by these structures during autophagy (“uh-TAW-fuh-jee”). The hydrolytic enzymes in these structures must tolerate pHs below 5 while they digest proteins and lipids. For 10 points, name these cellular suicide sacs.

ANSWER: **lysosome** [prompt on **endosomes**; prompt on **vesicles**]

<Adam Silverman, Science - Biology> ~25336~ <Editor: Adam Silverman>

5. In a novel by this author, Julie is mocked for dating the illegal immigrant Abdu. This author’s essay “What the Book is About” was included in a 1980 collection about censorship titled “What Happened to” one of their novels. The title character of a novel by this author visits Katya Bagnelli (“bah-N’YEL-ee”) in Nice (“neese”), where she has an affair with the professor Bernard Chabaliere (“sha-BAH-lee-ay”). In that novel by this author of *The Pickup*, reflections on Communist activism prompt (*) Rosa to reckon with the legacy of her father Lionel. A yellow truck called a bakkie (“BACK-ee”) is used in a novel by this author, in which the title Black servant assists the Smales family during a civil war in South Africa. For 10 points, name this author of *Burger’s Daughter* and *July’s People*.

ANSWER: Nadine **Gordimer**

<Halle Friedman, Literature - World and Miscellaneous> ~14363~ <Editor: Joseph Krol>

6. Some of the most prestigious jobs in this profession in China are at Red Circle companies, a name that references Britain’s Magic Circle. English workers in this job must belong to the Honorable Society of Lincoln’s Inn or one of three related associations, and traditionally worked on Chancery Lane.

Prestigious jobs in this profession in the US are at Arnold & Porter and other (*) “white-shoe” firms. Well into the 20th century, it was common to “read” into this job by studying texts by William Blackstone. About 70,000 Americans in this job belong to the textualist Federalist Society. In the UK, this profession is divided between solicitors and barristers. For 10 points, name this profession that might represent clients at trials.

ANSWER: **lawyer** [or **attorney**; or the **legal** profession; accept **solicitor** or **barrister** before mentioned; reject “judge”]

<Michael Bentley, History - Cross, Historiography, and Miscellaneous> ~23081~ <Editor: Michael Bentley>

7. This artist imported red lake pigment to Augsburg to complete the cape of a rearing black horse after the Battle of Mühlberg. Putti holding clouds separate the blue sky from an intense golden glow in a fresco by this artist for the Frari Church. This artist called his mythology scenes “poesies” because he regarded them as the visual equivalent of poetry. In a painting by this artist, a god hoisting a cow’s leg and a man entangled by a snake follow a chariot pulled by (*) cheetahs. This artist completed the landscape for a cassone (“KAH-so-NAY”) depicting a sleeping woman by his teacher Giorgione. This Venetian artist of *Bacchus and Ariadne* included a small dog on a white bed below a maid searching through a chest in a reclining nude. For 10 points, name this artist of *Venus of Urbino*.

ANSWER: **Titian** (“TIH-shun”)

<Ganon Evans, Fine Arts - Painting - European to 1600> ~25762~ <Editor: Chandler West>

8. Alumina is purified away from aluminum salts containing this ion in the Bayer process. During saponification, this ion acts as a nucleophile at a carbonyl group to convert fats into soaps. Although this polyatomic ion precipitates most metals, at very high concentrations it re-solubilizes zinc and aluminum because it forms amphoteric salts. This naked ion reacts with carbon dioxide to form (*) bicarbonate. The equilibrium constant $K_{\text{sub-b}}$ equals the molarity of this ion times “HB over B minus.” The sodium salt of this ion is sold as pellets called “caustic soda.” The concentration of this an-ion increases when ammonia is dissolved in water. For 10 points, all strong bases are salts of what polyatomic ion with formula “OH minus”?

ANSWER: **hydroxide** [or **OH-** until read; prompt on **OH**; reject “hydroxyl”]

<Adam Silverman, Science - Chemistry> ~25479~ <Editor: Adam Silverman>

9. The protagonist of a novel by this author tries to convince grape-growing peasants to make a “complaint book,” and kills himself by letting go of the ropes of a hot-air balloon. After his sister forces him to eat snails, the protagonist of a novel from this author’s trilogy *Our Ancestors* flees into a tree. The protagonist of a novel by this author goes to Ataguitania (“ah-TAG-wih-TAH-nee-uh”) to pursue the translator Ermes Marana and meets (*) Ludmilla in a store after the first of several occasions when they only manage to read the first chapter of a book. This author of *The Baron in the Trees* wrote a novel whose protagonist is You, the reader. For 10 points, what Italian author wrote the novel *If on a winter’s night a traveler?*

ANSWER: Italo **Calvino** (“IT-ah-loh kahl-VEE-noh”)

<William Grossman, Literature - European - Long Fiction> ~17299~ <Editor: Joseph Krol>

10. With Richard Walters, this thinker disagreed with John Dollard and Neal Miller’s reliance on reinforcement for a behavior he explained using modeling. This thinker outlined four ways of moral disengagement as part of his belief that morality was self-regulated. This thinker posited triadic causation to explain his theory of reciprocal determinism. Julian Rotter’s locus of control inspired this psychologist to coin the idea of (*) self-efficacy. An experiment by this psychologist included a tea set and a mallet toy. In that experiment by this champion of social cognitive theory, adults shouted “Pow!” while hitting a clown, an aggressive behavior then learned by children. For 10 points, name this Canadian psychologist behind the Bobo doll experiment.

ANSWER: Albert **Bandura**

<Ganon Evans, Social Science - Psychology> ~25706~ <Editor: Athena Kern>

11. A logical error named for this activity has an “inverse” form that Ian Hacking identified in some arguments against the “fine-tuned universe.” A philosopher solved this activity’s “problem of points” before giving it up due to his religious “night of fire.” This activity appears to offer infinite expected utility in the St. Petersburg Paradox. This activity names a (*) fallacy that occurs when one believes that the probability of an event is changed by the outcome of past trials. An argument named for this action appears in the *Pensées* and uses an early form of decision theory to establish the rationality of theism. For 10 points, Blaise Pascal analogized believing in God to what general activity of risking money in games of chance?

ANSWER: **gambling** [or **wagering**; or **betting**; accept games of **chance** until “chance” is read; accept participating in a **lottery**; accept **gambler**’s fallacy or Pascal’s **Wager**; prompt on answers like **flipping** or **tossing a coin or dice**]

<Jordan Brownstein, RMP - Philosophy> ~25023~ <Editor: Jordan Brownstein>

12. Note to moderators: read answerline carefully. Description acceptable. Multirange ammeter selector switches may need to operate on the principle of “make-before-[this action].” The maximum power point of a solar cell equals the product of its fill factor, a certain current, and a voltage associated with this action. Power stations quench arcs resulting from this action with sulfur hexafluoride gas. In response to (*) leakage, RCDs perform this action. The *I*-squared *t* rating of a certain sacrificial component indicates the energy at which it will execute this action by melting. Short circuits are typically interrupted by taking this action. For 10 points, fuses are designed to perform what safeguarding action that shuts down a circuit with excess current?

ANSWER: **breaking** a circuit [accept answers describing **creating** an **open** circuit or **opening** a circuit or **stopping current** flow or **tripping a circuit breaker** or **blowing a fuse** or **opening** a switch; accept **make-before-break**; prompt on answers indicating **measuring current** or **detecting a current** imbalance with “What general action is taken as a result?”]

<Lalit Maharjan, Science - Physics> ~25383~ <Editor: David Bass>

13. Dena Goodman documented how attendees to one of these events in Lyon devised a round-robin system of paying for and sharing periodicals. They didn’t take place in cafes, but these events were identified as the beginning of the “public sphere” by Jürgen Habermas. One of these events in London in 1756 led to the coining of the term bluestockings. During one of these events, a woman embroidered and broke up fights amongst Girondins. Marie Geoffrin was an influential (*) hostess of these events that inspired later ones put on by Suzanne Necker. Philosophes and Encyclopédistes gathered at these events where women could openly share ideas. For 10 points, name these intellectual gatherings of Enlightenment France.

ANSWER: **salons** [accept **salonnières** or intellectual **salons** or philosophical **salons**; prompt on **reading club**, political **meeting**, **dinner party**, **gathering**, or literary **discussion** group]

<Ganon Evans, History - European - 1500-1900> ~25861~ <Editor: Michael Bentley>

14. One of these people remarked that a region resembled "heart rings" formed by mating dragonflies, giving rise to one name for that region. The first of these people was the grandson of the prince Hoori and a woman who returned his borrowed fish hook. One of these people battled "shrimp barbarians" during their travels East guided by a three-legged crow. (*) Suinin is the first of these people to have possibly existed, though Jimmu is the first recorded one. In a ceremony, priests present these people with a mirror, jewel, and sword known as the Three Sacred Treasures. According to the *Kojiki*, these rulers descend from a goddess who caused darkness by hiding in a cave. For 10 points, name these rulers who are said to be descended from Amaterasu.

ANSWER: **emperor** of **Japan** [accept **empress** of **Japan**; accept **Tennō**; prompt on **Emperor of Heaven** or **Heavenly Sovereign**; prompt on just **emperor** or empress with "of where?"; prompt on less specific answers like **ruler** or **leader** of Japan with "what kind of ruler?"; prompt on less specific answers like **emperor** or **empress** with "of where?"; prompt on **Japanese people**] (Dragonfly Island is a classical name for Japan.)

<Lalit Maharjan, RMP - World Mythology> ~25072~ <Editor: Jaimie Carlson>

15. Sculptures in this city’s metro system include a series of maiolica (“my-YO-lee-kah”) panels depicting military scenes on the Brown Line and a monument to a murdered dog named Malchik. The inscription “Your name is unknown, your deed is immortal” appears in this city near a statue of a helmet on a cape at a necropolis built around a red wall. This city’s Muzeon Park is called the “graveyard of fallen monuments” in reference to the dismantled sculptures left there in the (*) 1990s. A 332-foot-tall statue designed by Zurab Tsereteli (“zoo-RAB tzer-eh-TELL-ee”) in this capital city depicts a monarch standing atop a tower of ships. A monument in this capital city pays homage to the first dog in space, Laika. For 10 points, name this capital city, home to monuments honoring the Red Army and Cosmonauts.

ANSWER: Moscow, Russia [or Moskva]

<Andrew McCowan, Geography - Europe> ~25168~ <Editor: Ganon Evans>

16. A man with this profession is mocked for not knowing about foreign policy, and is told by his father about a member of this profession who found a tiger under the dinner table. When the Loam family is stranded on a desert island, a man with this profession becomes their dictator in J. M. Barrie’s *The Admirable Crichton*. One of these people reminisces about his father’s devotion to “dignity” in this job. One man with this profession fails to admit his attraction towards (*) Miss Kenton, and wonders how he can learn to “banter.” That character with this profession is Stevens in Kazuo Ishiguro’s *The Remains of the Day*. For 10 points, contrary to popular belief, P. G. Wodehouse’s character of Jeeves is a valet and not what other profession?

ANSWER: butler [prompt on attendant or servant or personal gentleman with “what is their specific role?”; reject valet]

<Jaimie Carlson, Literature - British - Long Fiction> ~25789~ <Editor: Jaimie Carlson>

17. This ruler initially ignored pleas from Queen Elizabeth II to show clemency to the author of *The White Pumpkin*, Denis Hills. Leicester’s (“LEH-ster’s”) Clifton Packaging Company was founded by some of the 76,000 people fleeing an order issued by this man that deprived his country of 90 percent of its tax revenues. This member of the Kakwa people was nicknamed “butcher” for persecuting the Lango and Acholi ethnic groups. Eleven of this ruler’s (*) MiG (“mig”) fighters were destroyed during a rescue mission led by Yonatan Netanyahu, the Entebbe Raid. This one-time cook in the King’s African Rifles expelled his country’s Asian minority and came to power after overthrowing Milton Obote. For 10 points, name this man who ruled Uganda for much of the 1970s.

ANSWER: Idi Amin [or Idi Amin Dada Oumee]

<Michael Bentley, History - World - African> ~25011~ <Editor: Jordan Brownstein>

18. Anne Teresa De Keersmaeker re-choreographed an Ivo van Hove version of this musical criticized for its use of video cameras. In a film version of this musical, two characters in a bedroom awash in blue and red lights sing a song that includes the line “hold my hand and we’re halfway there.” In this musical, a group of male characters (*) snap along to lines like “boy, boy, crazy boy” in the song “Cool.” Robert Wise and Jerome Robbins co-directed the 1961 film version of this musical that includes a song in alternating 6/8 (“six-eight”) and 3/4 (“three-four”) time called “America.” For 10 points, name this Leonard Bernstein musical, a modernization of *Romeo and Juliet* about the rivalry between the Sharks and the Jets.

ANSWER: West Side Story

<Michael Bentley, Fine Arts - Miscellaneous> ~25886~ <Editor: Young Lee>

19. This quantity was erroneously observed to increase with distance under a form of selection bias discovered by Gunnar Malmquist. The number density of galaxies is given as a function of this quantity in an equation named for Schechter. This quantity is approximately proportional to the fourth power of stellar velocity dispersion according to the (*) Faber–Jackson relation. Adapting the Stefan–Boltzmann law to stars replaces radiant emittance with this quantity. Henrietta Swan Leavitt discovered a relationship between this quantity and period for Cepheid variables. An observer-dependent measure of this quantity is apparent magnitude. For 10 points, name this intrinsic measure of the amount of light radiated by an object.

ANSWER: **luminosity** [or **absolute magnitude** or **absolute bolometric magnitude**; prompt on apparent magnitude or apparent brightness]

<Jeff Xie, Science - Astronomy> ~13618~ <Editor: David Bass>

20. This story’s narrator proclaims that “even in the grave all is not lost.” After he trips over his robe, the narrator of this story incorrectly counts the size of a room as fifty-two plus forty-eight paces. This story begins with the narrator “sick unto death with that long agony” as he is sentenced by pale and thin judges. This story ends with General (*) Lasalle grabbing the narrator’s arm as the French army enters Toledo and defeats the Inquisition, thus preventing the narrator’s execution by what he describes as a “destroying crescent.” For 10 points, the narrator is bound in a dungeon and subjected to a swinging, descending, hot metal axe in what Edgar Allan Poe story?

ANSWER: “The **Pit and the Pendulum**”

<Benjamin Chapman, Literature - American - Short Fiction> ~25965~ <Editor: Chandler West>

21. Herbert Ushewokunze (“oo-sheh-woh-koon-zuh”) toured the US with evidence that Rhodesia had used a “porridge” of this product called Frantan. A synthetic version of this product developed by textbook author Louis Fieser in the 1940s was successfully demonstrated against a mock city in Utah. The “B” form of this product was manufactured by Dow, leading to a 1960s boycott. Curtis LeMay ordered the deployment of (*) M69s equipped with this product for a campaign that left a million people homeless in Tokyo. A naked nine-year-old named Phan Thi Kim Phuc (“fahn tee kim fook”) was nicknamed for this product after being photographed screaming by Nick Ut (“oot”) following a 1972 bombing. For 10 points, name this chemical widely dropped to start fires in Vietnam.

ANSWER: **napalm** [accept **napalm** B; accept **naplam** girl; prompt on **incendiary** mixture or **incendiary** bombs]

<Michael Bentley, History - Cross, Historiography, and Miscellaneous> ~22964~ <Editor: Michael Bentley>

NSC 2023 - Round 12 - Bonuses

1. In February 2023, a U-2 pilot took a selfie with one of these devices over Bellflower, Missouri. For 10 points each:

[10e] Name these reconnaissance devices, one of which was shot down by the Air Force over Surfside Beach, South Carolina after floating across the United States.

ANSWER: spy **balloon** [accept high-altitude **balloons**; accept Chinese **balloons**]

[10m] After the balloon was downed, six Chinese organizations were added to the Entity List alongside this other company, which was added to limit access to Android software. This company's "Princess" Mèng Wǎnzhōu was detained in Canada until 2021.

ANSWER: **Huawei** Technologies Co., Ltd.

[10h] The Chinese spy balloon was tracked to a launchpad on this island. The nine-dash line begins south of this island, which is China's largest special economic zone by area.

ANSWER: **Hǎinán** Island

<Ganon Evans, Current Events - World> ~20815~ <Editor: Ganon Evans>

2. This author's filmography includes *Chicken with Plums*, in which a musician decides to stay in bed until he dies after his violin is broken. For 10 points each:

[10m] Name this author who recounted leaving Iran after the execution of her uncle Anoosh in *Persepolis*.

ANSWER: Marjane **Satrapī** ("mar-ZHAHN sah-TRA-pee")

[10e] Satrapī's *Persepolis* is written in this form. This form was also used for Art Spiegelman's *Maus* ("mouse"), which places some text in speech bubbles.

ANSWER: **comic** books [or **graphic** novels]

[10h] In *Persepolis*, Marjane discusses dialectical materialism with this character at night. Marjane tops her class during an exam after this character tells her that the essay will be about Montesquieu ("mon-TESK-ee-oo").

ANSWER: **God** [or **Allah**]

<Yingzhi Nyang, Literature - World and Miscellaneous> ~20223~ <Editor: Joseph Krol>

3. Robert P. Goldberg categorized these programs into type one, which run directly on the host's hardware, and type two, which run on the host's operating system. For 10 points each:

[10h] Name these programs that run virtual machines. These programs are also known as virtual machine "monitors" or "managers."

ANSWER: **hypervisors** [prompt on **virtualizers**]

[10m] This programming language's namesake virtual machine enables its "write once, run anywhere" feature. This programming language is distributed in its namesake "Development Kit."

ANSWER: **Java** [accept **Java** Virtual Machine or **Java** Development Kit; prompt on **JVM** or **JDK**]

[10e] Virtual machines are contrasted with these programs that only seek to simulate the observable behavior of a program. These programs are often used to play retro games on modern devices.

ANSWER: **emulators** [accept hardware **emulators**]

<David Bass, Science - Computer Science> ~21436~ <Editor: David Bass>

4. William Proxmire, a senator from this state, was sued for libel after he declared that animal researcher Ronald Hutchinson has “made a monkey out of the American taxpayer.” For 10 points each:

[10h] Name this state whose other senators included Earth Day founder Gaylord Nelson.

ANSWER: **Wisconsin** [or **WI**]

[10e] Proxmire took the seat last occupied by this senator, who rose to prominence with a Lincoln Day speech in which he claimed to have a list of 205 known Communists working in the State Department, kicking off the Red Scare of the 1950s.

ANSWER: Joseph **McCarthy** [or Joseph Raymond **McCarthy**]

[10m] McCarthy himself succeeded a Wisconsin politician with this surname whose father, nicknamed Fighting Bob, promoted the Wisconsin Idea during the Progressive Era.

ANSWER: **La Follette** [accept Robert M. **La Follette**; accept Robert M. **La Follette** Jr.]

<Michael Bentley, History - American - 1945+> ~20867~ <Editor: Michael Bentley>

5. Answer the following about the Iraqi composer Hanna Petros, for 10 points each.

[10e] In 1936, Petros founded the first of these institutions in Iraq. The Curtis Institute and Juilliard School are examples of these music academies.

ANSWER: **conservatories** [or **conservatory**; or **conservatoire**]

[10m] Petros’s most widely performed piece is an “Oriental” piano solo in this form in which a refrain alternates with themes in a pattern like A·B·A·C·A·D. The third movement of Mozart’s *Piano Sonata No. 11* is in this form and was inspired by Janissary bands.

ANSWER: **rondo** [accept **rondeau**; accept **Rondo** Oriental; or **Rondo** Alla Turca]

[10h] While studying under Petros, Jamil Bashir wrote a two-volume treatise on this instrument common in *maqam* music. Rahim AlHaj is a performer of this lute-like, Arabic string instrument.

ANSWER: **oud** (“OOD”)

<Ganon Evans, Fine Arts - Music - Miscellaneous> ~20820~ <Editor: Young Lee>

6. One voyage commanded by this man was stopped for five months on Tahiti while he waited for breadfruit to mature. For 10 points each:

[10m] Name this Governor of New South Wales during the Rum Rebellion who faced the mutiny on the *Bounty*.

ANSWER: William **Bligh**

[10h] Bligh was sheltered by King Pomare (“poh-MAR-ay”) I of Tahiti, whose name is derived from this disease. Camille Guérin co-developed the BCG vaccine for this disease.

ANSWER: **tuberculosis** [or **TB**; or **consumption**] (Pomare means “night cougher.”)

[10e] The later Queen Pomare IV unsuccessfully appealed to this French king after Tahiti was made a protectorate in 1843. This July Monarch and successor of Charles X was deposed in 1848.

ANSWER: **Louis Philippe** I [prompt on **Louis** or **Citizen King**]

<Veer Bhatt, History - Cross, Historiography, and Miscellaneous> ~21022~ <Editor: Michael Bentley>

7. Five separate texts of this type exist for the work of Amedeo Modigliani due to scholarly differences over authentication. For 10 points each:

[10h] Name these texts with a French two-word name that attempt to list all known works of an artist.

ANSWER: **catalogues raisonné** (“ca-ta-log rey-sun-AY”) [or **critical catalogue**]

[10e] All the Modigliani *catalogues raisonné* are dominated by paintings in this genre. It is subdivided into types, such as three-quarter view and busts, and may be made in profile.

ANSWER: **portraits** [or **portrait** paintings]

[10m] This artist’s namesake foundation published a *catalogue raisonné* of his works in 2002 but now refuses to authenticate works over fear of lawsuits. This Pop artist made use of Ben-Day dots in paintings such as *Drowning Girl*.

ANSWER: Roy **Lichtenstein** [or Roy Fox **Lichtenstein**]

<Michael Bentley, Fine Arts - Painting - Misc> ~20056~ <Editor: Chandler West>

8. This man wrote “to you, clerk, literary man, sedentary person, man of fortune, idler, the same advice. Up!... Out in the morning!” and recommended replacing 90 percent of food with meat. For 10 points each:

[10m] Name this author of *Manly Health and Training*. This author of the Calamus poems declared “I say now these are the soul” after listing body parts in one poem.

ANSWER: Walt **Whitman** [prompt on Mose **Velsor**] (The poem is “I Sing the Body Electric.”)

[10h] Less healthily, this author ate only anchovies and bread to treat his TB. A poem by this author asks “for a beaker full of the warm South” and begins “My heart aches, and a drowsy numbness pains / My sense.”

ANSWER: John **Keats** (The poem is “Ode to a Nightingale.”)

[10e] Many Romantic writers imitated this poet’s bulimia and his weird habit of drinking vinegar. This “mad, bad, and dangerous to know” poet wrote “She Walks in Beauty.”

ANSWER: George Gordon, Lord **Byron**

<Jaimie Carlson, Literature - British - Poetry> ~20938~ <Editor: Jaimie Carlson>

9. The Petit Albert (“puh-TEE al-BAIR”) grimoire describes how to make this object with a candle, which will immobilize all who see it. For 10 points each:

[10h] Name these objects, which are dried and pickled after being taken from a hanged man.

ANSWER: **Hand of Glory** [prompt on **hand**]

[10e] One of these two siblings, a German linguist and folklorist, documented the tradition of "thieves' thumbs," or using a fetus' thumb as a candle. These brothers recorded a collection of fairy tales including *Hansel and Gretel*.

ANSWER: Brothers **Grimm** [accept Jakob and Wilhelm **Grimm**]

[10m] In a children's book by Heinrich Hoffmann named for "Shock-headed" [this name], Konrad's thumbs are cut off for sucking them. Fairies in Kensington Gardens teach a boy of this name to fly.

ANSWER: **Peter** [or Struwwelpeter; or Shock-headed **Peter**; or **Peter** Pan]

<Jaimie Carlson, RMP - World Mythology> ~20953~ <Editor: Jaimie Carlson>

10. A lysate of this animal’s blood is slowly being phased out for recombinant factor C made by microbes. For 10 points each:

[10m] Name these so-called “living fossils.” Because their blood is clotted by bacterial endotoxins, it commands high value in the pharma industry and is harvested from these arthropods in horrifying factories.

ANSWER: **horseshoe crabs** [accept **Limulidae** or **Xiphosura**; prompt on **crabs**]

[10e] Horseshoe crab blood is this color. It has nothing to do with oxygen: human veins only seem to be this color because they are close to the surface of the skin.

ANSWER: **blue** [or **cyan**]

[10h] A recombinant form of this protein is also now used in molecular assays, in lieu of the grotesque practice of extracting it from bovine serum. This lipid transporter is the most abundant protein in human blood.

ANSWER: serum **albumin** [or **HSA**; or bovine serum **albumin**; or **BSA**]

<Adam Silverman, Science - Biology> ~20017~ <Editor: Adam Silverman>

11. This philosopher used the term “natality” to describe the idea that humans are “not born in order to die but in order to begin.” For 10 points each:

[10m] Name this philosopher who wrote about a war criminal who used “stock phrases and self-invented clichés” to defend himself, thus highlighting the “banality of evil.”

ANSWER: Hannah **Arendt**

[10e] In her book *Eichmann in Jerusalem*, Arendt argued that Eichmann’s role in this political party was not due to “insane hatred” of Jews.

ANSWER: **Nazi** Party [or **National Socialist German Workers’ Party** or **Nationalsozialistische Deutsche Arbeiterpartei** or **NSDAP**]

[10h] Before she changed her mind in *Eichmann in Jerusalem*, Arendt wrote in this book that argues that authoritarian movements were “radical evils” motivated by “natural resentment” against everything they could not understand.

ANSWER: *The **Origins of Totalitarianism***

<Yingzhi Nyang, RMP - Philosophy> ~20267~ <Editor: Jordan Brownstein>

12. The “mad poet” Abdul Alhazred created this book while worshiping the deity Yog-Sothoth. For 10 points each:

[10h] Name this “dreaded” grimoire, an English translation of which is read by Wilbur Whateley in “The Dunwich Horror.” This book describes gods called the Old Ones.

ANSWER: ***Necronomicon*** [or the ***Book of the Dead***; or the ***Kitab al-Azif***]

[10e] The *Necronomicon* contains the mythos of this author of “At the Mountains of Madness.” Victor D. LaValle’s novella *The Ballad of Black Tom* subverts the racism of this creator of Cthulhu (“kuh-THOO-loo”).

ANSWER: H. P. **Lovecraft** [or Howard Phillips **Lovecraft**]

[10m] Lovecraft based his *Necronomicon* on a Robert Chambers story about a play named for one of these people “in Yellow” that drives its reader to madness. A T.H. White tetralogy is titled for the “Once and Future” one of these people.

ANSWER: **king** [accept *The **King** in Yellow*; accept **King** Arthur; accept *The Once and Future **King***; prompt on monarchs; prompt on rulers]

<Ganon Evans, Literature - American - Misc> ~20813~ <Editor: Chandler West>

13. In 1902, about a third of the people detained in Siberian prison camps were members of this organization. For 10 points each:

[10h] Name this organization of Socialist Jews established in Vilnius in 1897.

ANSWER: The **Bund** [or Jewish **Bund**; or **General Union of Jewish Workers in Lithuania, Poland, and Russia**; or ***Vseobshchy Yevreysky Rabochiy Soyuz v Litve, Polische, i Rossii***]

[10m] The Bund had an elaborate network for smuggling materials in and out of this location. The shtetls in this region were generally the only place Jews were allowed to live in the Russian empire in the 19th century.

ANSWER: **Pale** of Settlement [or ***chertá osédlosti***; or ***t’hum hammosháv***]

[10e] In Poland between the World Wars, the Bund fought to end the policy of “ghetto benches” that segregated Jews at these institutions. Anti-Jewish quotas at elite examples of these institutions in the US pushed many New York Jews to CUNY (“KYOO-nee”).

ANSWER: **universities** [or **colleges**; prompt on schools]

<Michael Bentley, History - European - 1500-1900> ~17930~ <Editor: Michael Bentley>

14. When one of these operations is rotation-free, it is known as a “boost.” For 10 points each:
[10m] Name these linear operations named for a Dutch physicist that map between inertial reference frames in special relativity.

ANSWER: **Lorentz transformations** [or **Lorentz transforms** or **Lorentz boosts**]

[10h] In addition to vectors in spacetime, another Lorentz covariant vector is this quantity whose first component equals energy over the speed of light and whose latter three components equal the Lorentz factor times mass times velocity.

ANSWER: **four-momentum** [or **momentum–energy** or **momenergy**; prompt on **momentum**]

[10e] The Lorentz factor is denoted with this letter. This letter names the region of the electromagnetic spectrum with greater energy than X-rays.

ANSWER: **gamma** [accept **gamma** rays]

<Benjamin Chapman, Science - Physics> ~20958~ <Editor: David Bass>

15. After reading the works of Pāṇini, Dmitry Mendeleev built an early version of the periodic table based on this language. For 10 points each:

[10m] Name this non-vernacular language used to exchange vows after a couple walks seven steps together. A series of hymns in this language that translate to “putting together” are recited at different times in a child’s life.

ANSWER: **Sanskrit** [or **sanskrita** or **sanskritam**]

[10h] This woman, who was fluent in Sanskrit, published the magazine *Isis Unveiled* while living in India. She also founded the religion of Theosophy.

ANSWER: Helena **Blavatsky**

[10e] Helena Blavatsky’s death is commemorated on a holiday known as White Lotus Day, during which this text is read. This dialogue between Krishna and Arjuna is contained within the *Mahābhārata*.

ANSWER: **Bhagavad Gita** [prompt on **Gita**]

<Andrew McCowan, RMP - Hinduism> ~20705~ <Editor: Athena Kern>

16. In 1976, the Emmys introduced a special award for the design of these sequences. For 10 points each:

[10m] Name these sequences, the specialty of Saul Bass, who created one featuring close-ups of Kim Novak’s eyes and animations created from spirographs for Alfred Hitchcock’s *Vertigo*.

ANSWER: **title** sequence [or **opening credits** sequence; or **main titles**; prompt on **credits** or **opening** sequence]

[10h] This film’s iconic, credits-free opening is largely credited with the decline of the opening credits sequence. This film was influenced by Kurosawa’s *Hidden Fortress*, according to a 2001 Criterion interview with its director.

ANSWER: **Star Wars** [or *Star Wars: Episode IV: A New Hope* or *Star Wars: Episode IV: A New Hope*]

[10e] Elaine and Saul Bass used timelapse photography for the title sequence of this director’s 1993 version of *The Age of Innocence*. This director also made *Taxi Driver* and *Goodfellas*.

ANSWER: Martin **Scorsese** [or Martin Charles **Scorsese**]

<Michael Bentley, Fine Arts - Film> ~18500~ <Editor: Young Lee>

17. In 1599, the clown Will Kemp engaged in a publicity stunt where he performed this type of dance for nine days when traveling between London and Norwich. For 10 points each:

[10h] Name this type of folk dance. Abbots Bromley, Staffordshire has an annual tradition in which six animal-men perform this dance while holding deer antlers.

ANSWER: **Morris** dance [or **Moresgue**; or **Morrice** Dance; or **Morisque**; or **Morrisk**]

[10e] In the late 19th century, Morris dancing was revived for this holiday. In Britain, this holiday takes place after Christmas and is named for either places to drop alms or the gifts given.

ANSWER: **Boxing Day**

[10m] Until a crackdown under Oliver Cromwell, Morris dancing was popular as part of the Whitsun ales, whose later tradition of Whitsun weddings titles a poetry collection by this author of “This Be The Verse.”

ANSWER: Philip **Larkin** [or Philip Arthur **Larkin**]

<Michael Bentley, Other - Other Academic and General Knowledge> ~20151~ <Editor: Ganon Evans>

18. Answer the following about winners of the PEN Translation Prize, for 10 points each.

[10e] In 1998, the PEN Translation Prize was awarded to Peter Constantine for his translation of *Six Early Stories* by this German author of *The Magic Mountain*.

ANSWER: Thomas **Mann** [or Paul Thomas **Mann**]

[10m] The last winner of the PEN Prize for verse translation was Dennis Tedlock for his rendering of this text transcribed by Father Ximénez (“**hih-MEN-eth**”), which includes the creation myth of the Mayan people.

ANSWER: **Popol Vuh** [or **Popol Wuj** or **Pop Wuj** or **Popul Vuh: The Mayan Book of the Dawn of Life**]

[10h] Other winners of the prize include Tim Wilkinson and Len Rix, who translated novels in this language titled *Fatelessness* and *Katalin Street*. Another novelist used this language for *The Melancholy of Resistance* and *Sátántangó*.

ANSWER: **Hungarian** [or **magyar nyelv**] (The original authors are respectively Imre Kertész, Magda Szabó, and László Krasnahorkai.)

<Joseph Krol, Literature - European - Other> ~21054~ <Editor: Joseph Krol>

19. Jeremy Bentham’s panopticon inspired this leader to construct the infamous Lecumberri Prison. For 10 points each:

[10m] Name this dictator who declared that his country was ready for democracy in a 1908 interview with James Creelman. His 31-year presidency was ended by a 1910 revolution led by Francisco Madero.

ANSWER: Porfirio **Díaz** [or José de la Cruz Porfirio **Díaz** Mori]

[10h] Díaz justified his rule of Mexico with this slogan, signifying that development could not occur without a strong state. This positivist-inspired phrase also appears on a flag designed by Raimundo Teixeira Mendes (“**hi-MUN-do tay-SHER-ah men-JEYS**”).

ANSWER: **Order and Progress** [or **Ordem e Progresso**]

[10e] Díaz’s dictatorship led liberals to protest the “death” of the 1857 constitution promulgated by this first indigenous president of Mexico. This man names a Ciudad on the Mexico–Texas border.

ANSWER: Benito **Juárez** [or Benito Pablo **Juárez** García; accept Ciudad **Juárez**]

<Hari Parameswaran, History - World - Latin American> ~21113~ <Editor: Jordan Brownstein>

20. A triangular arrow engraved into the lip of these objects indicates the direction they should be inserted to make the path length one centimeter. For 10 points each:

[10m] Name these small rectangular vials that hold solutions of unknown concentration inside a spectrophotometer.

ANSWER: **cuvettes**

[10e] Spectrophotometry is also used to measure the concentration of the suspended, insoluble particles found in these mixtures. This class of mixtures include emulsions, gels, and aerosols.

ANSWER: **colloids** [prompt on **suspensions**]

[10h] Particle concentration in a colloid is reported using this quantity to account for both absorbed and scattered light. This quantity is measured at 600 nanometers to estimate the concentration of cells in broth.

ANSWER: **optical density** [or **OD**; or **OD600**; prompt on **density**]

<Adam Silverman, Science - Chemistry> ~20759~ <Editor: Adam Silverman>

21. This quantity times velocity of money equals price level times expenditure, according to the equation of exchange. For 10 points each:

[10m] Name this quantity. A central bank can directly increase the economy's value of this quantity by buying government bonds.

ANSWER: **money supply** [or **monetary supply** or **monetary base** or **money stock**; prompt on M or money; prompt on descriptive answers such as "the amount of money in the economy"]

[10e] The "k-percent rule," which advocates increasing money supply by the same percentage each year, was proposed by this monetarist and Chicago school economist.

ANSWER: Milton **Friedman**

[10h] Inflation can be predicted by measuring the velocity of money with a value of zero for this quantity. Yield curves graph bond interest rates against this quantity.

ANSWER: **maturity** [accept money with zero **maturity** or bond **maturity** date]

<Benjamin Chapman, Social Science - Economics> ~21089~ <Editor: Athena Kern>