

TOSSUPS

1. This practice is the defining trait and epithet of a gigantic riverboat peddler who steals the hero's stone talisman in a novel that Katrina Dodson translated in 2023. A short-lived journal titled for this practice published a poem in which the speaker vows to never "forget... in the life of my fatigued retinas" after seeing a stone "In the Middle of the Road." This practice serves as a metaphor for the author's interest in "what isn't mine" in a text by a Group of Five member who planned the 1922 Modern Art Week with the author of *Macunaima* ("mah-koo-nah-EE-muh"). This practice titles a manifesto that includes a print of Tarsila do Amaral's painting *Abaporu* and the pun "Tupí or not tupí." Oswald de Andrade ("OHZ-vald jee ahn-DRAH-jee") led a movement named for this practice in Brazil. For 10 points, what practice's ceremonial use by indigenous Amazonians inspired an essay by Michel de Montaigne ("mon-TAYN")?

ANSWER: **cannibalism** [or **anthropophagy** or **antropofagia**; or **eating people**; accept **humans** or **men** in place of "people"; accept **Anthropophagic Manifesto** or *Manifesto Antropófago* or *Revista de Antropofagia*]
<World Literature>

2. This mechanism obeys a geometric distribution that flattens until conversion plateaus around 90 percent. In a result that anticipated percolation theory, this mechanism's products change when alpha is above the reciprocal of "functionality minus one." A reaction obeying this mechanism is driven by ethylene release in acyclic diene ("DY-een") metathesis. This mechanism ideally consumes all starting materials in the first interval and increases average mass exponentially over time. The progress of reactions with this mechanism was related to number-average size by Wallace Carothers ("kuh-RUH-thers"). Reactions with this mechanism are never "living," as they will terminate without aid. This mechanism incorporates heteroatoms ("hetero-atoms") into molecular backbones and creates polyesters. For 10 points, name this mechanism in which oligomers ("oh-LIG-oh-mers") condense to form polymers, in contrast to a "chain" method.

ANSWER: **step-growth** polymerization [or **step polymerization**; accept **condensation** polymerization until "condense" is read; prompt on **polymerization** until "polymers" is read; prompt on **esterification** until "polyesters" is read]
<Chemistry>

3. Alexandra Berzon reported on this city's construction worker deaths, which led to Perini's 2008 walkout. In this city in the 1990s, the Elardi family hired a spy squad during Hattie Canty's six-year Frontier strike, whose demands were met by new owner Phil Ruffin. Until 2004, this city hosted the computing trade show COMDEX. So-called "mole people" live in flood tunnels under this city, whose homeless often rent the Siegel Group's extended stay "weeklies" in a downtown redeveloped by Zappos CEO Tony Hsieh. The largest local in the UNITE HERE coalition is this city's Culinary Workers Union. In February 2024, a teachers union sued to stop public financing for a ballpark in this city, which earlier taxed hotel rooms to fund Allegiant Stadium. For 10 points, Sacramento will house the Oakland A's while what city demolishes the Tropicana on its Strip?

ANSWER: Las **Vegas** [accept **Paradise**, Nevada; accept **Sin City**; accept Las **Vegas** Strip; accept *Las Vegas Sun*; prompt on the **Strip** until read]
<Current Events>

4. Edward Elgar and Amy Beach's pieces in this genre make up a 2020 Hyperion recording featuring Garrick Ohlsson. The last movement of Robert Schumann's only piece in this genre begins with a *sforzando* C minor chord before unusually introducing the first theme in G minor. Antonín Dvořák ("DVOR-jahk") destroyed the manuscript of his first numbered piece in this genre, and then published a rewrite of it as his second piece in this genre. Like his string sextet, that A-major Dvořák piece in this genre has back-to-back *dumka* and *furiant* movements. The second movement of Robert Schumann's 1842 piece in this genre is a rondo with a funeral march refrain. Schubert's only piece of this genre has an A-major arpeggio motif that ascends two octaves in triplets, and includes a theme and variations based on one of his *Lieder* ("LEED-ur"). For 10 points, name this genre of a Schubert piece nicknamed "Trout."

ANSWER: **piano quintet** [prompt on quintet; prompt on *Trout Quintet* or *Forellenquintett*]

<Classical Music>

5. This person criticized a stingy ruler with the anecdote of a talking locust sent by God to destroy an unjust land's crops and claimed that cannibals avoid "unripe" white skin. Biru's ill-mannered *farba* offended this resident of the "white quarter," who fell ill for months from undercooked *colocasia*. Though this person married over ten times and bought many *jawari* concubines, he scorned nudity at court before Queen Qāsā's failed coup against Sulaymān. He lamented the deserted imperial "Red City" after he canceled plans to defend Gibraltar due to Alfonso XI dying of plague. The Marinid sultan Abu 'Inan Faris commanded this Mālikī *qāḍī* to dictate his life to Ibn Juzayy, who plagiarized Ibn Jubayr's earlier *Rihla* ("RIH-hluh") to report his visit to the fly-ridden salt mines of Taghaza. For 10 points, name this key source on the Mali Empire, a Moroccan world traveler.

ANSWER: **Ibn Battūta** ("IB-un buh-TOO-tuh") [or Abū Abdullah Muḥammad **ibn Battūtah** or Abū 'Abd Allāh Muḥammad ibn 'Abd Allāh al-Lawāṭiyy aṭ-Ṭanjiyy **ibn Battūtah**] (Biru is also known as Oualata.)

<World History>

6. In the last scene of this novel, a long-haired "pretty boy" walks into a quarry shouting "happiness, free, for everyone!" before his sudden death. An apartment dinner scene in this novel is punctuated by the reanimated corpse of the protagonist's father struggling to take a drink. In this novel, the protagonist's daughter slowly loses her language ability due to a mutation that gives her golden fur. After "hell slime" destroys the legs of "Vulture" Burbridge, the protagonist of this novel learns the way to a wish-granting Golden Sphere that he obtains by sacrificing Burbridge's son to the "grinder." This novel begins with the Institute scientist Kirill and Red Schuhart ("shoo-hart") entering a wasteland near Harmont to search for alien artifacts. For 10 points, the film *Stalker* adapts the setting of the Zone from what novel by the Strugatsky brothers?

ANSWER: **Roadside Picnic** [or **Piknik na obóchine**] (Andrei Tarkovsky directed *Stalker*.)

<European Literature>

7. *Specific term required.* A later director of the “Workers’ Bank” failed to rescue these places from a billion-dollar 1980s “debt crisis.” A “water war” began with the shelling of Centurion tanks at one of these places created in the “tower and stockade” period with Tegar fort. The DORSA hired experts from these places to design Sosúa’s (“so-SOO-ah’s”) dairy factories after Rafael Trujillo’s (“troo-HEE-yo’s”) brother agreed to resettle refugees at the Évian Conference. In 1965, one of these places that commercialized jojoba oil signed the first contract for drip irrigation with the engineer behind the National Water Carrier. Joseph Shepher (“SHEF-air”) studied the Westermarck effect at these places, whose 1960s volunteers included Tony Judt. Degania (“deh-GAHN-yah”) was among the first of these places settled alongside semi-private *moshavim* (“mo-shah-VEEM”) during the Second Aliyah (“ah-lee-YAH”). For 10 points, name these communal cooperatives in Israel.

ANSWER: **kibbutzim** [or **kibbutzes**; accept **kvutza**, **kevutzah**, **kvutzot**, or **kevutzot**; accept **kibbutzniks** or **kibbutznikim**; accept specific kibbutzim; prompt on **cooperatives**, **collectives**, **communes**, collective **farms**, **agricultural** communities, or **estates**; prompt on Israeli **settlements**, **hityashvut**, **hityashvuyot**, **hitnakhlut**, or **hitnakhlyot**] (Clues include Shimon Ravid and Bank Hapoalim, the Tel Dan incident, the Dominican Republic Settlement Association, and Simcha Blass of Mekorot and Netafim.)

<Other History>

8. This film has an “oppositional score,” according to Emilio Audissino’s 2014 monograph on its composer. By release date, this is the earliest film in a musical catalog by Frank Lehman. This film’s title theme is scored in B-flat major so as to transition out of the 20th Century Fox fanfare, which this film revived. About five minutes into this film, a solo horn introduces the following G minor motif: a leap up from D to a long G, then a long A, then the three notes pickup B-flat, C, B-flat. This film uses a Rhodes piano, ARP synthesizer, and steel drum to augment an onscreen wind ensemble meant to be a futuristic take on 1930s Benny Goodman swing. This film’s title theme resembles Korngold’s theme to *Kings Row*, and is followed by so-called “Holst chords” based on the “Mars” movement. For 10 points, name this 1977 space opera scored by John Williams.

ANSWER: **Star Wars** [or **Star Wars IV**; or **Episode IV – A New Hope**; or **Episode IV: A New Hope**; reject other *Star Wars* episodes]

<Other Fine Arts>

9. *Description acceptable.* A book written in response to this argument inspired Annalisa Coliva’s work on hinge epistemology by treating one of this argument’s premises as a “hinge proposition.” The weakness of this argument was identified as “transmission failure” by Crispin Wright. A class of arguments against moral error theory repurposes this argument’s procedure of replacing the opponent’s *modus ponens* with a *modus tollens*, which is called its creator’s namesake “shift.” At the behest of Norman Malcolm, Wittgenstein spent the last two years of his life compiling notes on this argument that became the book *On Certainty*. This argument was made in a 1939 paper that follows up on the author’s “Defense of Common Sense.” For 10 points, identify this argument purporting to refute skepticism that G. E. Moore made with two of his body parts.

ANSWER: “here is one **hand**” argument [or Moore’s proof of an **external world**; or **Moore’s proof**; accept paraphrases of the quote “here is one **hand**, here is another”; accept any references to **hands**; accept **Moore’s anti-skeptical** argument or equivalents until “skepticism” is read; accept **Moore’s anti-idealism** argument or equivalents; prompt on **Moore’s argument** or **Moorean** arguments or **Moorean** shift; prompt on “**Defense of Common Sense**” until “common” is read; prompt on **anti-skeptical** argument or word forms]

<Philosophy>

10. Evidence of a device with this physical property, which arose from curves that transition into a “hissing” regime, was published by the IEE’s first female member, Hertha Ayrton. This property arises from two “valleys” of different depths according to Ridley–Watkins–Hilsum theory. A region in which this property is displayed allows microwaves to be generated by Gunn diodes. High-frequency switching circuits can make use of a device with this unusual property that consists of a heavily-doped germanium P–N junction, across which electrons tunnel. In intermediate voltage ranges, Esaki (“eh-SAH-kee”) diodes have this property, which always holds if impedance is in the second or third quadrant. For 10 points, downward-sloping parts of I–V characteristics correspond to what property, which occurs if an increase in current causes a decrease in voltage?

ANSWER: **negative resistance** [or **negative differential resistance**; or differential **resistance less** than **zero** or differential **resistance below zero**; accept **resistivity** or **mobility** in place of “resistance”]

<Physics>

11. *Specific term required.* It’s not “identity,” but Rogers Brubaker applies this concept to itself in an article listing three criteria that preserve its analytical utility. This concept is called “a utopian eruption of space into the linear temporal order of” modernity in a work that uses Fela Kuti’s influences to illustrate its “living memory of the changing same.” Robin Cohen’s influential typology of this concept includes “victim,” “trade,” and “labor” types. Classic examples of “politics” or “governance” named for these communities include a tax on them levied by Eritrea and the BJP courting support from “NRIs.” In *The Black Atlantic*, Paul Gilroy contrasts essentialist identities with one of these communities created by the African slave trade. For 10 points, post-exile Jews are the paradigmatic example of what communities dispersed from a real or imagined homeland?

ANSWER: **diaspora** [or word forms of **diasporic**; accept **diaspora** politics or **diaspora** governance or **diaspora** tax; prompt on **expatriate** communities, **transnational** communities, **immigrant** communities, or word forms of any] (NRIs are non-resident Indians.)

<Social Science>

12. In a story by this author, a man listens to a song on the radio with the lyric “I love you, Baby” while waiting to hear from a boarding school about his son’s appendix surgery. This author wrote about an ex-army engineer who goes to a graveyard with an usherette he meets at the movies, and later learns that she serially kills members of the RAF. This author of “Kiss Me Again, Stranger” ended a story with a man thinking, “what a bloody silly way to die” while holding his slashed throat. That man created by this author has a vision of his wife and a pair of elderly twins on a vaporetto before a dwarf kills him. John and Laura go to Venice after their daughter’s death in a story by this author, who described Nat Hocken smoking his last cigarette as the title animals assault his cottage. For 10 points, name this author of “Don’t Look Now” and “The Birds.”

ANSWER: Daphne **du Maurier** [or Dame Daphne **du Maurier**, Lady Browning; prompt on “Lady **Browning**”]

<British Literature>

13. Digs in the south of this subnational historical region near the *gord* of Pohansko found a rune-marked rib from 600 CE, which may corroborate “strokes and incisions” described by Chernorizets Hrabar (“chair-no-REE-zets huh-RAH-bar”). This region named a “gate” on the Amber Road and a state that possibly expelled Pribina from Nitra. The bull *Industriae tuae* (“in-DUSS-tree-ay TOO-ay”) protected that state named for this region, which was invaded by Louis the German after it received a mission from Photios I. John Amos Comenius fled the margraviate named for this region, whose diaspora founded Herrnhut and led 18th-century missions for this region’s Unity of the Brethren. After the fall of Samo’s realm, Rastislav and Svatopluk led a “great” 9th-century state named for this region, for which Cyril and Methodius created the Glagolitic alphabet. For 10 points, Brno is the cultural capital of what Czech region between Silesia and Bohemia?

ANSWER: **Moravia** [or **Morava**, **Morawa**, **Morawy**, or **Mähren**; accept **Moravian** Church, **Moravian** Brethren, **Moravianism**, or **Moravská** církev; accept Great **Moravia**, **Moravia** Magna, Velká **Morava**, Wielkie **Morawy**, Gross**mähren**, or **Marahensium**; accept Margraviate of **Moravia** or **Moravian** Gate; prompt on **Czechia** or **Czech** Republic or **Česká** republika until “Czech” is read]

<European History>

14. In 2023, a team at Caltech’s Palomar Observatory discovered one of these astronomical objects nicknamed “Janus.” Nonradial gravity mode pulsations explain the luminosity variations in one of these objects called HL Tau 76. Leon Mestel derived the relation between these objects’ cooling time and luminosity, allowing them to be used as galactic chronometers. Very late thermal pulses cause the formation of these objects’ non-DA spectral class. Nonrelativistic analysis of these objects predicts that their radius is inversely proportional to the one-third power of their mass. Novas occur due to accretion onto one of these objects in cataclysmic variables. Mergers of two of these objects cause type Ia (“one-A”) supernovas. For 10 points, stars under ten solar masses end their lives as what objects whose masses are bounded by the Chandrasekhar (“CHAN-druh-SAY-kar”) limit?

ANSWER: **white dwarfs** [or **white dwarf** stars or **white dwarves** or **WDs**; accept pulsating **white dwarfs**, pulsating **white dwarves**, variable **white dwarfs**, or variable **white dwarves**; prompt on **dwarf** stars or **dwarfs** or **dwarves**]

<Other Science>

15. The heroine Tjut Meutia (“choot MOOT-yah”) used one of these objects shaped like the *Basmala*. *Empus* (“um-POO’s”) can laminate these objects with an undulating *dapur* in over 100 *pamor* patterns. The clown Semar owns a “magic” kind of these objects similar to a cursed one that Gandring made for Ken Arok. These objects name “broken” and “victory” *batik* motifs reserved for noble *sarongs* in Solo. King Willem-Alexander returned an asymmetric gold one owned by Prince Diponegoro. The UMNO (“UM-no”) wields these objects as a symbol of Malay supremacy. The Katipunan (“kah-tee-POO-nan”) held blindfolded initiations with these objects, which include flippable *balisongs* that rotate around the *tang*. Rangda casts a spell so that men poison themselves with these objects, but Barong protects them, in a Balinese dance. For 10 points, what objects include the Indonesian *kris* and the Filipino *bolo* and “butterfly”?

ANSWER: **knives** [or **knife**; accept **daggers**, **swords**, switch**blades**, **machetes**, pocket**knife**, **sheaths**, **scabbards**, or **hilt**s; accept **keris**, **kris**, **balisong**, or **bolo** until each is read; accept **itak**, **tabak**, **sundang**, **sanduko**, **binangon**, **cuchillos**, **kutsilyo**, **gulok**, **wilah**, **warangka**, **hulu**, **parang** rusak, **parang** menang, or **rencong**; prompt on **weapons** or **arms**]

<Other Academic>

16. William Owsley faced backlash in this state for pardoning a Vermonter named Delia Webster who was convicted of aiding fugitive slaves. Earlier Vermonter migrants moved to this state's town of Eddyville. This state chartered the "Forty Thieves" banks. After an unfavorable property rights decision in the 1794 case *Kenton v. McConnell*, this state abolished its court of appeals; three decades later, it was abolished again for striking down debt relief legislation pushed by Joseph Desha. The Supreme Court upheld this state's right to issue banknotes in a case brought by John Briscoe. This state was thrown into turmoil by the Old Court–New Court controversy. A longtime senator from this state presented the Maysville Road bill, an example of federal infrastructure projects key to his "American System." For 10 points, name this state represented by Henry Clay.

ANSWER: **Kentucky** [or **KY**; or Commonwealth of **Kentucky**; accept *Briscoe v. Bank of Kentucky*]
<American History>

17. Note to moderator: Read the answerline carefully. Note to players: Original-language term required. Excessive use of this practice is said to cause a type of psychosis called its namesake "deviation." A state-sponsored "Scientific Research Society" named for this practice and a painter who claimed to have cured her own cervical cancer triggered a "boom" or "fever" for this practice in the 1970s and '80s. One spiritual movement based on this practice promoted a "*qilin*" ("chee-LEEN") culture," while another made inroads with the European far right since its founder claimed that different races go to different heavens. Like some martial arts, this practice involves conducting "internal alchemy." A new religious movement that began as an offshoot of this practice is led by Lǐ Hóngzhì, who claimed to implant followers with a "dharma wheel." For 10 points, *tai chi* is often considered a subset of what broader form of "cultivating" a life force from Chinese medicine?

ANSWER: **qigōng** ("chee-GONG") [or **ch'i kung** or **hei gung**; prompt on any of *Zhōng Gōng*, *Chung Kung*, *Fǎlún Gōng*, *Falun-Kung* or *Fǎlún Dàfǎ*, or on *tai chi* or *tàijí* until "tai chi" is read, by asking "that is often considered part of what broader system of spiritual practice?"; prompt on *nèijiǎ*, *nei-chia*, *noi-gaa*, *nèidān*, *nei-tan*, *noi-raan*, *nèigōng*, *nei kung*, *noi gong*, *zhàn zhuāng*, or *dǎoyīn*; prompt on *zhōngyī* or *chung-i* or *zung ji* until "medicine" is read]

<Religion>

18. The speaker of an essay about this writer imagines being "an insect, vibrating at the frames of windows, clinging to panes of glass." That essay argues that this writer translated subversiveness into a "dialect called metaphor" and praises lines about an "imperial thunderbolt" and winds taking "forests in their paws." That essay, which imagines "traveling at the speed of time" to this writer's home, takes its title from one of several poems by this author that mention volcanoes. This subject of Adrienne Rich's "Vesuvius at Home" wrote about roaming through "Sovereign Woods" and hunting a doe in a poem about having "the power to kill" but not "the power to die." In that poem by this author, the "Mountains straight reply" when the title object is fired. For 10 points, name this poet of "My Life had stood – a Loaded Gun."

ANSWER: Emily **Dickinson** [or Emily Elizabeth **Dickinson**]
<American Literature>

19. These objects title a dreamlike portrait inspired by Italian Renaissance busts of the artist's wife Camille Falte. Several of these objects are "*Floating Like Mollusks*" in a print from an album depicting Flaubert's ("floh-BAIR's") *The Temptation of St. Anthony*. The area around one of these objects dramatically lacks any shading in the piece *Guardian Spirit of the Waters*. French translations of Edgar Allan Poe inspired a lithograph depicting a giant, perfectly spherical one of these objects carrying a small head; that lithograph is titled for how one of these objects "Like A Strange Balloon, Mounts Towards Infinity." In a colorful Symbolist painting, a giant with one of these objects intrudes on a nereid sleeping on a flowery hill. For 10 points, name these body parts imaginatively depicted in the lithographs of Odilon Redon ("ruh-DAWN").

ANSWER: **eyes** [or **eyeballs**; prompt on **organs**; prompt on **body parts** until read; reject "heads"] (The Symbolist painting is *The Cyclops*.)

<Painting & Sculpture>

20. Oligomers (“oh-LIG-oh-mers”) named for being “high” in this molecule help “shield” gp120 from antibodies. The FimH (“fim-H”) protein of uropathogenic (“uro-pathogenic”) *E. coli* binds to this molecule to anchor itself to the urothelium (“uro-THEE-lee-um”). Nonamers (“NON-uh-mers”) of this molecule are targeted for glucosylation by UGGT, which marks partially folded proteins for binding by calnexin. The synthesis of “hybrid” and “complex” antigens begins with removing units of this molecule from N-X-T sites in the *trans*-Golgi. Recognition of this molecule and glucose by C-type lectins triggers one of the three canonical complement cascades. In enzyme replacement therapy, this molecule is added to recombinant iduronidase with *N*-glycosylation. Inclusion cells are formed by an inability to phosphorylate this anomer (“ANN-oh-mer”) of glucose. For 10 points, name this sugar whose “6-phosphate” derivative directs proteins to the lysosome.

ANSWER: **mannose** [or D-**manno**pyranose; accept **mannose**-6-phosphate; accept oligo**mannose**; accept **mannans**; accept high-**mannose** glycans; prompt on sugars, carbohydrates, monosaccharides, or aldohexoses until “sugar” is read]

<Biology>

BONUSES

1. A tradition from this present-day country drew on art from Santa Maria Maggiore (“mah-JOH-ray”) to develop *harag* illumination. For 10 points each:

[10h] Name this country whose brightly-colored illuminated manuscripts often featured red, yellow, blue, and green paint, eschewed shading, and depicted front-facing rounded figures with almond-shaped eyes.

ANSWER: **Ethiopia** [or Federal Democratic Republic of **Ethiopia**, Ye-**Ītyōppya** Fēdēralawī Dēmokirasīyawī Rīpebilīk, **Itivoophiyaa**, **Ītivop’iya**, or **Itoobiya**] (The manuscripts were created by members of the Ethiopian Orthodox Church.)

[10m] Ethiopian *harag* recalls the dense geometricism of non-figurative pages named for these objects in Insular manuscripts. A couplet by Hāfez is inscribed on one of these objects from Safavid Iran at the Victoria and Albert Museum.

ANSWER: **carpets** [accept **carpet** pages; accept **rugs**; accept Ardabil **carpet**; prompt on textiles or floor coverings]

[10e] Ethiopian Orthodox *dabtara* clerics created “healing” examples of these objects for animal sacrifice rituals. Chinese landscapes were often painted on “hanging” silk examples of these objects.

ANSWER: **scrolls** [accept hanging **scrolls** or guāzhóu; accept silk **scrolls** or lìzhóu; accept healing **scrolls**, **ma’ero qumāt**, **yā branna kitab**, or **tālsām**; prompt on paper or parchment]

<Painting & Sculpture>

2. Correctly anticipating its reception, the Míng philosopher Lǐ Zhì (“lee jurr”) titled his magnum opus for this action. For 10 points each:

[10e] Name this action that the legalist Lǐ Sī (“lee sih”) supposedly oversaw along with the “burying of scholars” during the Qín (“chin”) dynasty.

ANSWER: **book burning** [or equivalents; accept *A **Book to Burn*** or *Fénshū*; prompt on burning or destroying or equivalents of each]

[10m] Lǐ Zhì’s *A Book to Burn* denies the “shortsightedness” of these people, paralleling a later argument of the Korean Neo-Confucian Im Yunjidang (“yoon-jee-dahng”). These people title a book of “precepts” by Bān Zhāo (“bahn jao”).

ANSWER: **women** [or **female** people or equivalents; or nǚrén; accept *Women’s Precepts, Lessons for **Women***, *Admonitions for **Women***, *Instructions for **Women***, or *Nǚjiè*]

[10h] Lǐ championed a “childlike” form of this concept, which Im Yunjidang wrote about during the Horak debate. The Lù–Wáng school is alternately named for its claim that *lǐ* (“lee”) can be found within this concept, whose two most common English translations are often combined with a hyphen.

ANSWER: **heart-mind** [or heart-**mind**; or xīn (“sheen”); or **mibal**; accept School of **Heart**, School of **Mind**, Learning of the **Heart-Mind**, or “**mind** is principle”; reject putative equivalents such as “brain”]

<Philosophy>

3. This poem reflects on “a century of history” marked by “dehydrated Naiads, Dryad amputees / dragging themselves through slagscapes with no trees.” For 10 points each:

[10h] Name this poem whose speaker compares his age of 42 to the age at which the title poet died. In this poem, Tony Harrison states that “life has a skin of death that keeps its zest” in offering a fruit to a Romantic poet.

ANSWER: “A **Kumquat for John Keats**”

[10e] “A Kumquat for John Keats” calls the atom bomb a thing that “ravishes all silence, and all odes” in reference to a Keats poem that calls this title object a “foster-child of silence and slow time.”

ANSWER: Grecian **urn** [accept **vase** or **vessels** or equivalents; accept “Ode on a Grecian **Urn**”]

[10m] Harrison’s poem invokes Keats’s knowledge of “candied apple, quince and plum and gourd” by quoting this poem, in which Porphyro lays those fruits out for a woman as she sleeps.

ANSWER: “The **Eve of St. Agnes**”

<British Literature>

4. A Peruvian faction known by this name rebelled in Arequipa (“ah-ray-KEE-pah”) after Ramón Castilla’s (“kass-TEE-yuh’s”) 1854 “revolution.” For 10 points each:

[10m] Give this name of numerous Latin American parties, including the Chilean *pelucones* (“pay-loo-KOH-ness”) who won a civil war in 1830, the Colombian victors of the Thousand Days’ War, and foes of Eloy Alfaro in Ecuador.

ANSWER: **conservative** [or **conservador** or **conservadora**; accept **Conservative** Party, Partido **Conservador**, Colombian **Conservative** Party, or Partido **Conservador** Colombiano; prompt on **PC**] (The first line refers to the Peruvian Civil War of 1856–1858 after the Liberal Revolution of 1854.)

[10h] Conservatives were tarred as “Goths” during a five-year civil war with this name that inspired Venezuela’s national motto. Bolivian Liberals exploited Aymara *ayllus* (“aye-looz”) in their 1899 civil war with this name.

ANSWER: **Federal** War [or Guerra **Federal**; accept **Federal** Revolution or Revolución **Federal**; accept **federation**, **federalism**, **federalists**, **federalismo**, or **federalistas**; accept “Dios y **Federación**” or “God and **Federation**”]; prompt on Guerra **Larga** or **Long** War by asking “what other name is it typically known by?”]

[10e] In 1838, this country’s conservatives seceded from the Federal Republic of Central America, whose member states reunited in 1855 to expel William Walker during planning for this country’s unrealized canal.

ANSWER: **Nicaragua** [or Republic of **Nicaragua** or República de **Nicaragua**; accept **Nicaragua** Canal or Canal de **Nicaragua**]

<World History>

5. Proteins subject to this reaction can be measured to find average blood sugar levels. For 10 points each:

[10m] Name this non-enzymatic reaction that begins by forming a Schiff base. This reaction forms a namesake family of advanced end-products correlated with aging.

ANSWER: **glycation** [or word forms of **glycate**; or **Maillard** reaction; accept advanced **glycation** end-products or **glycated** hemoglobin or **glycated** albumin; accept **glycooxidation**; reject “glycosylation”]

[10e] Advanced glycation products can oxidize LDL, which is named for having a low value of this quantity. The so-called “good cholesterol” is named for its high value of this quantity.

ANSWER: **density** [accept low-**density** lipoprotein or high-**density** lipoprotein]

[10h] These receptors were first identified for recognizing oxLDL but can also bind modified lipid PAMPs like LPS. Class A examples of these receptors like MARCO are especially common on macrophages, where they contribute to the formation of foam cells.

ANSWER: **scavenger** receptors [or **SRs**]

<Biology>

6. Bamboo slips authenticated two of this subject's seven "classics," the *Six Secret Teachings* and the *Wèi Liáozi* ("way lee-OW-dzuh"), the second of which stresses the influence of comets. For 10 points each: [10m] Name this counterpart of an administrative sphere called *wén* ("wun"). A manual for this subject advises "chaining" some of its 36 case studies, which include one about a supposedly empty city credited to Zhūgě Liàng ("joo-guh lee-ahng").

ANSWER: military **strategy** [or **strategies** or **stratagems**; or **jì** or **zhànlüè**; accept **tactics** or **tactical** manuals; accept **warfare**, **military** treatises, **war** treatises, **conflict**, **battle**, **sieges**, counter**attacks**, **wǔjīng**, **zhànlüè**, or equivalents; accept *Thirty-Six Stratagems* or *Sānshíliù Jì*; accept *Seven Military Classics* or *Wǔjīngqīshū* or *Wu ching ch'i shu*; prompt on **violence** or **harm** or equivalents; prompt on **tricks**, **ruses**, **deceptions**, or equivalents] (The slips were found in the Yinquèshān Hàn tombs. Wén is contrasted with wǔ.)

[10e] A supposed descendant of this strategist "besieged Wèi ("way") to rescue Zhào ("jao")" at the Battle of Guílíng ("gway-leeng"). He is credited with *The Art of War*.

ANSWER: **Sun** Tzu [or **Sūnzǐ** ("swun-dzuh"); or **Syunzi**; or **Chángqīng** or **Ch'ang-ch'ing**; accept **Sūn** Bìn or **Sun** Pin]

[10h] A teen girl descended from Cáo Cāo's ("tsow tsow's") strategist Xún Yù ("shwin yew") relieved a siege after this group of regents for the disabled emperor Huì ("hway") wrecked Western Jin. This group's civil war led to 311's infamous Xiōngnú ("shong-noo") sack of Luòyáng ("lwoh-yahng").

ANSWER: **Eight Princes** [or **Eight Kings**, **Eight Monarchs**, **Bā Wáng**, or **Pa Wang**; accept War of the **Eight Princes**, Rebellion of the **Eight Kings**, Chaos of the **Eight Kings**, **Bā Wáng** Zhī Luàn, or equivalents of any] (The *Jin History* reports the story of Xún Guàn. Shí Lè led Hàn Zhào's attack on Luòyáng.)

<Other History>

7. Either this force or the TeV ("T-E-V") energy scale names the brane corresponding to the conventionally observable world in a theory that aimed to resolve the hierarchy problem. For 10 points each:

[10e] What force is unified with electromagnetism in the Standard Model?

ANSWER: **weak** force [or **weak** interaction or **weak** nuclear force; accept electro**weak** force or electro**weak** interaction; accept **Weak**brane]

[10h] The Weakbrane is part of the first of two versions of this five-dimensional model of spacetime proposed by two eponymous physicists in 1999. Both versions of this model include the Planck brane.

ANSWER: **Randall–Sundrum** model [accept **RS** model or **RS1** model or **RS2** model]

[10m] The Randall–Sundrum model exemplifies this type of space with constant negative curvature. Juan Maldacena proposed a correspondence between conformal field theories, or CFTs, and this type of space partly named for a Dutch scientist.

ANSWER: **anti-de Sitter** space [or **AdS** space; accept **AdS**/CFT correspondence; reject "de Sitter space" or "dS space"]

<Physics>

8. Answer the following about unique West African restaurant genres, for 10 points each.

[10e] *Dibiteries*, *suya* joints, and household *fourneaux* (“foor-NO”) in Senegambia all cook meat with this fuel that is heavily trafficked from Somalia. Ghanaian kilns burn wood to make this fuel’s briquettes for barbecue.

ANSWER: **charcoal** [prompt on biomass; prompt on black carbon or C or char; reject “coal” or “coke” or “biochar”]

[10m] Patrons face away from the road at this country’s cheap *tourne-dos* lunch joints, which may serve *poulet DG* (“poo-LAY day-zhee”). Youth speak an English–French–Pidgin hybrid in this country, which is named for a Portuguese word for prawns.

ANSWER: **Cameroon** [or **Kamerun**; or Republic of **Cameroon** or République du **Cameroun**] (“DG” stands for Directeur Général. Sailors like Fernão Gomes called the Wouri River the “Rio dos Camarões.” The language is Camfranglais.)

[10h] This suburb of Abidjan hosts many open-air restaurants and dance bars called *maquis* (“mah-KEE”). It titles a series of *bandes dessinés* by Marguerite Aboutet about the teenage Aya’s social life during the Ivorian miracle.

ANSWER: **Yop City** [or **Yopougon**; accept *Aya of Yop City*, *Aya: Life in Yop City*, *Aya: Love in Yop City*, or *Aya de Yopougon*]
<Geography>

9. Pancrace Royer’s (“pan-CROSS rwah-YAY’s”) vigorous harpsichord pieces in this musical form include the furious block-chord-laden piece “*Le vertigo*.” For 10 points each:

[10m] Name this musical form with alternating refrains and episodes, similar to a *forme fixe* of the same name. Rameau perfected this genre with harpsichord pieces like “*Les cyclopes*” and the original “*Les sauvages*” (“leh so-VAZH”).

ANSWER: **rondeau** [or **rondo**; reject “round”]

[10e] This family of French harpsichordists included Marguerite-Antoinette, the first woman to be a royal court musician, and her father François, who composed “*Les barricades mystérieuses*.”

ANSWER: **Couperin** family [accept François **Couperin**; accept Marguerite-Antoinette **Couperin**]

[10h] Louis Couperin invented a genre of harpsichord preludes named for their lack of this musical feature. A German musicological term denotes these features when they are retroactively added to older vocal music.

ANSWER: **bar** lines [or **measure** lines; or *barres de mesure*; accept **Mensurstriche**; accept descriptions of marks that indicate separation of **measures**; accept **unmeasured** or **non-measured** prelude; accept *prélude non mesuré*]
<Classical Music>

10. A “record” of a lady’s “journey south” is one of the few 17th-century prose works likely composed in this language without translation from a foreign one. For 10 points each:

[10h] Name this language whose placeholder equivalent of “John Doe” comes from a novel about a statesman’s illegitimate son, who learns magic, becomes a bandit akin to Robin Hood, and conquers two islands.

ANSWER: **Korean** [or **hangugeo**; or **chosŏnmal**; accept **hangul**, **hangeul**, **chosŏn’gŭl**, or “**eonmun**”; prompt on **hanja**; reject “hanmun”] (Clues reference *The Record of Lady Sa’s Journey South* and *The Story of Hong Gildong*.)

[10m] Táng dynasty dream tales inspired one of the first Korean novels, an allegory by Kim Man-jung titled for nine of these things. These things title a chapter that precedes the “transition” and Uji chapters in an 11th-century text.

ANSWER: **clouds** [accept “Vanished into the **Clouds**” or “**Kumogakure**”; accept *The Nine-Cloud Dream*, *A Nine-Cloud Dream*, *The Cloud Dream of the Nine*, or *Kuunmong*] (“Vanished into the Clouds” is a chapter of *The Tale of Genji*.)

[10e] Yi Sik claimed that Heo Gyun (“huh GYOON”) wrote an anonymous Korean novel about the outlaw Hong Gildong to imitate this Chinese novel, whose 108 Stars of Destiny include “Dragon in the Clouds.”

ANSWER: **Water Margin** [or **Outlaws of the Marsh**, **All Men Are Brothers**, **The Marshes of Mount Liáng**, **Shuǐhǔzhuàn**, **Shui-hu chuan**, **Seoi-wu zyun**, **Suho jeon**, or **Suikoden**] (Gōngsūn Shèng is nicknamed “Dragon in the Clouds.”)

<World Literature>

11. James R. Gaines’s “underground history” of this decade notes the Mattachine (“MAT-uh-sheen”) Society’s conservative turn after it purged the Communist Harry Hay. For 10 points each:

[10e] Name this decade in which the Senate censured Joseph McCarthy after Lester C. Hunt committed suicide over his son’s arrest during the Lavender Scare.

ANSWER: **1950s** [or the **fifties**; accept *The Fifties: An Underground History*]

[10h] Eric Cervini’s book *The Deviant’s War* profiles this astronomer, who was fired during the Lavender Scare in 1957. He coined the slogan “gay is good” and emphasized respectability in early homophile pickets.

ANSWER: Frank **Kameny** [or Franklin Edward **Kameny**]

[10m] Kameny tried to get arrested for soliciting to challenge these police units, which entrapped gay activists like Dale Jennings in the 1950s. The Newport scandal exposed an early undercover “squad” known by this generic term.

ANSWER: **vice** squads [or **vice** patrols; or **morality** squads or **morality** patrols; accept **vice** laws]

<American History>

12. The first king of this group is Érimón, a name usually taken to reflect the Indo-European word for “Aryan-ness.” For 10 points each:

[10h] Name this group of humans. In a medieval poem, the gods go underground after this group is brought to land by a song that lets their ships reach closer than nine waves.

ANSWER: **Milesians** [or **children** of **Míl** Espáine; prompt on **Celts**, **Celtic**, **Gaels**, **Gaelic**, Na **Gaeil**, **Irish**, or Muintir na hÉireann] (The song is the “Song of Amergin.”)

[10m] The Milesians succeed a pantheon called the “people of” this reconstructed Irish mother goddess, who likely originates in the Indo-European personification of the river.

ANSWER: ***Danu** [or **Danann**; prompt on **Tuatha Dé Danann** by asking “which word is her name?”]

[10e] The Irish gods are themselves invaders, having been led by this “long-armed” god who destroys the Fomorian king Balor. He is the father of Cú Chulainn in the Ulster Cycle.

ANSWER: **Lugh** [or **Lug** or **Lú**; accept **Lugus**; reject “Lleu” or “Lleu Llaw Gyffes”]

<Mythology>

13. This mathematician names an annual lecture given by an invitee to the members of the Association for Symbolic Logic. For 10 points each:

[10e] What logician developed two incompleteness theorems about axiomatic mathematics?

ANSWER: Kurt **Gödel** [or Kurt Friedrich **Gödel**; accept **Gödel**’s incompleteness theorems; accept **Gödel** Lecture]

[10m] Patricia Blanchette’s 2022 Gödel Lecture discussed a rule-based approach to mathematics named for this adjective. “Languages” named for this adjective consist of an alphabet equipped with a set of rules.

ANSWER: **formal** [accept **formalism** or **formalist**; accept **formal** languages; accept “**Formalism** in Logic”]

[10h] Elisabeth Bouscaren’s 2019 Gödel Lecture addressed the “ubiquity of configurations” in this subfield of logic pioneered by Alfred Tarski. The Löwenheim–Skolem theorem concerns the cardinality of its eponymous objects.

ANSWER: **model theory** [or **theory** of **models**; accept “The ubiquity of configurations in **model theory**”; prompt on **models**]

<Other Science>

14. David Ragin is told to “believe in independent men” like Huckleberry Finn after asking this object’s owner what he has against the “machine” this week. For 10 points each:

[10m] Name this object that titles a 1964 play. This object, which bears the slogans, “Clean Up Community Politics” and “Wipe Out Bossism,” hangs outside a Greenwich Village apartment.

ANSWER: the **sign** in **Sidney** Brustein’s window [or the **sign** in Sidney **Brustein**’s window; prompt on **sign**]

[10e] *The Sign in Sidney Brustein’s Window* is by this author, whose husband Robert Nemiroff adapted her personal writings into the play *To Be Young, Gifted and Black*.

ANSWER: Lorraine **Hansberry** [or Lorraine Vivian **Hansberry**]

[10h] Sidney’s wife Iris has this maiden name, which her sister Mavis points out is associated with the ancient Greek chorus. This word referred to both a side entrance for the chorus and the chorus’s first ode.

ANSWER: **parodus** [or **parodos**]

<American Literature>

15. Answer the following about the career and influence of the psychologist Keith Stanovich, for 10 points each.

[10e] With Richard West, Stanovich coined the terms “System 1” and “System 2” to describe automatic and deliberate modes of cognition, a framework later popularized by this author of *Thinking, Fast and Slow*.

ANSWER: Daniel **Kahneman** (“KAH-nuh-mahn”)

[10m] Stanovich researched “Matthew effects” in this process, the subject of Marshall and Newcombe’s “dual route” model. It often involves “subvocalization” and two processes described by Louis Émile Javal.

ANSWER: **reading** [or **literacy**; or descriptions of learning to **read**; prompt on building **vocabulary** or **phonics** by asking “as part of what broader process?”; reject “learning a language,” “language acquisition,” “learning to speak,” or equivalents]

[10h] Gordon Pennycook et al. have applied Stanovich’s theories to the susceptibility to “pseudo-profound bullshit” and fake news, partly by using evaluations of these texts to create a “bullshit receptivity scale.”

ANSWER: fake Deepak **Chopra tweets** [or fake Deepak **Chopra quotes** or fake Deepak **Chopra sayings** or equivalents; prompt on **tweets**, **quotes**, **sayings**, or equivalents by asking “whose tweets are the fake texts created from?”]

<Social Science>

16. Belacqua (“bel-ACK-wuh”) and his aunt puzzle over the “enigma” of a passage about this place in a Samuel Beckett story. For 10 points each:

[10h] Name this place where the former nun Constance lives. The narrator’s explanation of this place’s features is refuted with a thought experiment featuring a light and three mirrors.

ANSWER: the **Moon** [or la **luna**; or **first sphere**; or **first heaven**; or **primo cielo**; prompt on **paradiso**, **paradise**, **heaven**, or **aldilà**]

[10e] Beatrice explains the spots of the Moon to Dante in the second canto of this third book of the *Divine Comedy*.

ANSWER: **Paradiso** [or **Paradise**]

[10m] That Beckett story ends with Belacqua thinking “it’s a quick death, God help us all” as he watches the demise of one of these animals, to which the narrator replies “it is not.” Gérard de Nerval walked one of these animals named Thibault (“tee-BOH”) on the streets of Paris.

ANSWER: **lobsters** [accept “Dante and the **Lobster**”; accept European **lobster**; prompt on **crustaceans**, **arthropods**, **invertebrates**, or **decapods**]

<European Literature>

17. Morphosis co-founder Thom Mayne proposed building a skyscraper next to one of these buildings made up of interlocking blocks of cantilevered concrete. For 10 points each:

[10m] Name this type of building designed in Vals by Peter Zumthor. The *Farnese Bull* and *Farnese Hercules* were discovered during excavations of one of these buildings from the 3rd century CE.

ANSWER: **baths** [accept **bath**houses or **spas**; accept **Therme** Vals or 7132 Thermal **Baths**; accept **Baths** of Caracalla or **Terme** di Caracalla or **Thermae** Antoninianae]

[10h] Zumthor collaborated with Louise Bourgeois on a witch trial memorial in this country. A firm from this country designed an SFMoMA extension, the Ithra Center, and the world's largest underwater restaurant.

ANSWER: **Norway** [or Kingdom of **Norway** or Kongeriket **Norge**] (The architectural firm is Snøhetta. The restaurant is called Under.)

[10e] Zumthor is leading an ongoing renovation of this city's County Museum of Art. Diller Scofidio + Renfro designed The Broad ("brode") in this city, which contains Frank Gehry's Walt Disney Concert Hall.

ANSWER: **Los Angeles** [or **LA**; accept **LACMA** or **Los Angeles** County Museum of Art]

<Other Fine Arts>

18. In food science, data from points in this region are fed directly to partial least squares to quantitatively distinguish oils and other lipids. For 10 points each:

[10m] Name this analytical region dominated by low-energy peaks corresponding to complex skeletal motions.

ANSWER: **fingerprint** region [prompt on mid-**infrared** or mid-**IR**]

[10h] Peaks from this in-plane motion dominate the right side of the fingerprint region. A large number of methylene units can undergo this kind of vibration, producing the "long chain band" at 720 inverse centimeters.

ANSWER: **rocking**

[10e] Broadband IR sources remain popular in part due to the "terahertz gap," which has made it difficult to obtain suitable examples of these devices with collated monochromatic output.

ANSWER: infrared **lasers** [or **light amplification by stimulated emission of radiation**]

<Chemistry>

19. Students of this theologian, like al-Dhahabī ("eth-THEH-hah-bee") and Ibn Qayyim al-Jawzīyya, described him as being incapable of letting even the tiniest disagreements go. For 10 points each:

[10h] Name this theologian who argued for a literal interpretation of Allāh's attributes in *al-'Aqīda al-Wāsiṭiyya* ("all-ah-KEE-dah all-WAH-sih-TEE-yah") and who contested the then-consensus opinion that visits to saints' shrines were an acceptable form of piety.

ANSWER: **Ibn Taymīyya** [or Taqī al-Dīn Aḥmad al-Numayrī **ibn Taymīyya**; accept al-**Harranī**]

[10m] Ibn Taymīyya was repeatedly jailed for preaching against a "triple" form of this process. A waiting period called *'iddah* is required for mourning after death and this process.

ANSWER: **divorce** [or **talāq** or **khul'** or **faskh**; or descriptions of **ending** a **marriage**]

[10e] Modern jihādists justify civilian casualties with one of these rulings issued by Ibn Taymīyya against Mongols at Mardin. Khomeini called for Salman Rushdie's death in one of these rulings.

ANSWER: **fatwā** [or **fatāwa**]

<Religion>

20. Louis the Pious sent Ansgar to convert this town, which was deserted by the 11th century, like Ribe (“REE-buh”), Kaupang (“KAO-pang”), and Hedeby (“HEH-thuh-pew”) in the Danish realm. For 10 points each:

[10h] Name this town built on a lake island west of Stockholm in the 8th century, making it the earliest Viking Age urban center. This town’s so-called “female warrior” was buried with weapons and a *tafl* (“TAH-vull”) game set.

ANSWER: **Birka** [or **Birca**; accept **Björkö**; accept “**Birka** Female Warrior”] (It is located in Mälaren.)

[10m] Birka’s assemblages suggest a decline in these animals, which inspired Soay’s Norse-derived name.

Ytre Moa (“YEW-truh MOH-uh”) and Kaupang exported products of these animals, which were regulated by Castile’s Mesta.

ANSWER: **sheep** [or **ovines** or domestic **sheep**; or **Ovis** or **O. aries**; accept **rams**, **lambs**, **ewes**, or **tups**; prompt on **caprines** or **wethers**] (While the Hebridean breed likely descends from Viking sheep, the feral sheep of Soay may predate the Vikings.)

[10e] Viking sheep enabled Fair Isle knitting in this archipelago. Old Norse evolved into Norn in Orkney and this other Scottish archipelago, whose namesake ponies derive from Viking horses.

ANSWER: **Shetland** [or **Shetland** Islands, **Shetland** Isles, **Sealtainn**, **Zetland**, or **Hjaltland**; accept **Shetland** pony or **Shetland** ponies; accept **Shetland** sheep; prompt on **Northern** Isles, Na h-Eileanan a **Tuath**, **Nordøjar**, or **Northreyjar**; reject “Zealand”]

<European History>