

TOSSUPS

1. RUNX2 mutations can limit the growth of these bones to their lateral ends, the lowest point of intramembranous ossification. These bones can indicate older ages than hand bones because, despite being the first to start ossifying, they only fuse past age 22. Troisier's ("twahz-YAY's") sign is observed at the left of one of these bones by palpating above it to find a sentinel node. These long bones, which lack marrow, define the lines used to position the V3 and V4 leads in an EKG. Lymph enters the venous angle below the left of these bones after passing through the thoracic duct. One of these bones is broken in 0.5 percent of infants delivered vaginally. 50 pounds of direct pressure will snap these bones, which are often broken by falling with one's arms out. For 10 points, name these curved bones that form the front of the shoulder girdle and connect at the sternum.

ANSWER: **clavicles** [or **claviculae**; accept **collarbones** or **key** bones; accept sub**clavian** vein or supra**clavicular** lymph node]
<Biology>

2. *Description acceptable.* The Japanese village of Shingō claims to be the actual home of this religious site based on claims by Sajiro Sawaguchi. A ladder at this site was made "immovable" by a strict 1757 agreement simply called "the Status Quo." Within a complex containing the Stone of Unction, this site is marked by the Aedicule ("EE-dih-cule") shrine. Accounts of this site's creation are often interpreted to fulfill the prophecy that the "Man of Sorrows" would be "with the rich." Matthew quotes Daniel to describe a figure at this site whose "appearance was like lightning, and his clothing white as snow." In Mark Chapter 16, the three Marys "said nothing to anyone, because they were afraid" after fleeing from this site, which was arranged by Joseph of Arimathea. For 10 points, name this site that was supposedly found empty after the resurrection.

ANSWER: **tomb** of **Jesus** Christ [or equivalents such as **Jesus** Christ's **mausoleum**; accept Church of the **Holy Sepulchre** or **Sancti Sepulchri** or **Panagíou Táfolu**; prompt on empty **tomb** or equivalents; prompt on **Golgotha** or **Calvary** or **Hill of Skulls** by asking "what nearby site that is now marked by a namesake church?"]
<Religion>

3. J. F. Easmon treated this colony's rampant "blackwater fever" a century after Anna Maria Falconbridge narrated "two voyages" during its deadly rainy seasons. Jamaican Maroons crushed a Methodist rebellion against this colony's monopolistic namesake company, which bought land from Naimbana of Koya around the Rice Coast's cotton tree. This colony's Anglican Fourah Bay College educated Samuel Ajayi Crowther and Africanus Horton. Bai Bureh led 1898 resistance to a hut tax in this colony, which was conceived by Granville Sharp to relieve London's poor. This colony's Vice-Admiralty Court judged the Preventative Squadron's "recaptives" after an 1807 act. Thomas Peters, a founder of this colony's Krio elite, left Nova Scotia in 1792. For 10 points, 35 *Amistad* mutineers and many Black Loyalists resettled what British colony bordering Liberia?

ANSWER: **Sierra Leone** [or **Salone**; accept **Freetown** or **Province** of **Freedom**; accept **Granville Town** until "Granville" is read; accept **Sierra Leone** Colony (and Protectorate), **Sierra Leone** Protectorate, Colony of **Sierra Leone** and its Dependencies, **Sierra Leone** Company, or Friendly Society of **Sierra Leone**; prompt on British **West Africa** or British **West African** Settlements or British **West African** Territories] (The West Africa Squadron formed after the Slave Trade Act 1807.)

<Other History>

4. This is the first word in the title of a Beatrice Longuenesse book that details how Kant analyzed its use with the fallacy of *sophisma figurae dictionis*. In English and German, this is the third word in each of the “three questions” of the *Critique of Pure Reason*, which refutes “paralogisms” that identify this word with a simple substance. Per Kant, this is the first of two words in a phrase that “must be able to accompany all our representations,” creating the unity of apperception. By analysis of the law $A=A$ (“A equals A”), this word is argued to create its “not” counterpart by a “fact-act” in which it “posits itself absolutely” in Johann Fichte’s *Wissenschaftslehre* (“VISS-en-shofts-LAIR-uh”). A 1923 book hyphenates this word with “it” to name a relation that posits a world of experienced objects. For 10 points, what word is paired with “thou” in the title of a book by Martin Buber?

ANSWER: **I** [or **ich**; accept **ego** or **self**; accept **I and Thou**, **Ich und Du**, das **Ich**, “**I** think,” “**Ich** denk,” or **I, Me, Mine: Back to Kant, and Back Again**] (Kant’s three questions are “What can I know?” “What must I do?” and “What may I hope?”)

<Philosophy>

5. A character in this play quips that an iron pot lifted with a silver prong would like to imagine itself as a silver vase in response to a girl’s belief that she was saved by a white-mantled angel. A treasurer urges his old chess partner to join him on a journey to the Ganges in one of this play’s scenes set in a grove of palm trees. This play’s protagonist recalls hearing Reason say “and yet, God is!” after learning that his seven sons were burnt alive. This play ends with the cast sharing a silent embrace, and opens with Daya retelling Recha’s rescue from a house fire by a knight later revealed to be her brother. In this play, an opal and two identical replicas are given to three sons in an allegory told to Saladin. For 10 points, a Jewish merchant tells the “Ring Parable” in what play about religious tolerance by Gotthold Lessing?

ANSWER: ***Nathan the Wise*** [or ***Nathan der Weise***]

<European Literature>

6. This quantity is written as the sum of reversible and irreversible terms in the Jiles–Atherton model. The time derivative of this quantity equals: [read slowly] a constant, times a damping parameter, times this quantity crossed with its time derivative, all plus a precession term. The Stoner–Wohlfarth model describes rotation about the “easy axis,” the energetically favorable orientation for this quantity to spontaneously appear. The Landau–Lifshitz–Gilbert equation predicts the evolution of this quantity, whose curl is the bound current density. The intrinsic coercivity is the applied field needed to reduce this quantity to zero, while the amount of this quantity when there is no applied field is called remanence. This quantity plus the H-field equals the B-field over mu-naught. For 10 points, what quantity is the magnetic moment per unit volume?

ANSWER: **magnetization** [or **magnetic polarization**; prompt on **M**; reject “polarization”]

<Physics>

7. To pay off debt incurred while writing this politician’s weekly newsletter, Robert Heinlein took up science fiction. This politician was supported by the ideological Olive Hill billboards of Aline Barnsdall. This politician made a campaign promise to immediately free Thomas Mooney, who had been falsely convicted with Warren Billings for their roles in the Preparedness Day Bombing. This politician’s electoral defeat to incumbent Governor Frank Merriam is detailed in his memoir subtitled “How I Got Licked.” This politician’s EPIC plan sought to end poverty in California. A book by this politician, and tests carried out by government chemist Harvey Wiley on the “poison squad,” spurred Congress to pass 1906 regulations. For 10 points, what socialist author’s novel about a Lithuanian immigrant led to the passage of the Pure Food and Drug Act?

ANSWER: Upton **Sinclair** [or Upton Beall **Sinclair**, Jr.] (The novel is *The Jungle*.)

<American History>

8. *Note to moderator: Read the answerline carefully. Note to players: Description acceptable.* A scholar coined the term “tarbutomics” (“tar-boo-TOH-micks”) to describe how one of these efforts used eclectic hybrid sources and to argue against “purist” approaches to them. A specific instance of these efforts is promoted by the metal band Alien Weaponry. As part of an approach to these efforts abbreviated “RLS,” Joshua Fishman created an eight-step process. “Breath of Life” Workshops organize many of these efforts in North America. Jessie Little Doe Baird started one of these efforts in Massachusetts by drawing on a Bible created by John Eliot. Early childhood programs in these efforts often draw on their namesake “nests” created in New Zealand. Eliezer Ben Yehuda galvanized one of these efforts by combining sources from Ladino and Yiddish. For 10 points, name these efforts exemplified by the engineering of modern Hebrew as Israel’s national language.

ANSWER: language **revitalization** [or descriptions of language **renewal**, **revival**, **regeneration**, **reintroduction**, **resurrection**, **reclamation**, **preservation**, or equivalents; accept descriptions of **preventing language death** or of teaching **endangered languages**; accept **reversing language shift**; accept **reviving** specific languages like Hebrew; prompt on descriptions of **teaching**, **learning**, **acquiring**, or **promoting** a language by asking “for what purpose for the given language?”; reject “language shift”] (The first line refers to Ghil’ad Zuckerman’s book *Revivalistics*.)
<Social Science>

9. Pieces by this composer make up Tai Murray’s debut recording, which Harmonia Mundi released in 2012. A single-movement sonata by this composer begins with a recitative (“reh-sit-uh-TEEV”)-like whole-tone scale that ascends three octaves as it grows louder and slightly faster. The slow movement of another of this composer’s sonatas is a set of six variations on a G-major sarabande theme whose last bar is in 5/4 (“five-four”). This composer intermixed the “Dies irae” with J. S. Bach’s E-major violin partita in the prelude of a sonata with movements titled “Malinconia,” “Danse des ombres” (“donce day ZOM-bruh”), “Les Furies,” and “Obsession.” Contemporaries like George Enescu and Jacques Thibaud (“tee-BOH”) were dedicatees of this composer’s six solo violin sonatas, while this composer was himself the dedicatee of the violin sonata by his compatriot César Franck (“say-zar FRONK”). For 10 points, name this violin virtuoso from Belgium.

ANSWER: Eugène **Ysaÿe** (“oo-ZHEN ee-ZYE”) [or Eugène-Auguste **Ysaÿe**]
<Classical Music>

10. An extended metaphor in this poem states that a woman being seduced must “defend the fort,” even though “in such wars women use but half their strength.” A woman in this poem who is called “Venus’s nun” states, “Were I the saint he worships, I would hear him” upon meeting her lover while sacrificing turtledoves at a temple. This poem draws from Byzantine poet Musaeus (“mew-ZAY-uss”) Grammaticus and is dedicated to Thomas Walsingham. In *As You Like It*, Phebe (“FEE-bee”) calls this poem’s author a “dead shepherd” and quotes the last line of its stanza that opens, “It lies not in our power to love or hate.” George Chapman completed this poem, which asks, “Who ever loved, that loved not at first sight?” and is set in Abydos (“uh-BYE-doss”) and Sestos, cities across a body of water that is “guilty of true love’s blood.” For 10 points, name this Christopher Marlowe poem about lovers separated by the Hellespont.

ANSWER: ***Hero and Leander***
<British Literature>

11. This ballet includes a dream sequence in which the two leads dance a *pas de deux* while the man never looks directly at the woman. A 1939 suite of music from this ballet omits its waltz, which was instead arranged for small orchestra and published in 1956. This ballet was first performed using an arrangement for two pianos, while Marie-Jeanne premiered the dual role of the Mother and the Sweetheart in its original Ballet Caravan production. A solo trumpet leads a 5/8-time rendition of the *jarabe* (“hah-RAH-beh”) dance in this ballet, which incorporates traditional tunes like “Goodbye Old Paint” and “Git Along, Little Dogies.” Eugene Loring choreographed this ballet, which ends with a reprisal of “The Open Prairie” after the title character is shot by Pat Garrett. For 10 points, name this Aaron Copland ballet about a Wild West outlaw.

ANSWER: **Billy the Kid**

<Other Fine Arts>

12. This figure embodies charity by avenging the heroic addressee of *The Epistle of Othea*. Pyrrhus cuts off this figure’s arm in Benoît de Sainte-Maure’s (“bun-WAH duh sant-MOR’s”) *Romance* and Guido delle Colonne’s (“GWEE-doh DEL-lay ko-LOAN-nay’s”) *History*. This figure foolishly trusts Athena’s false dream, in which Ares promises glory, and begins a leopardlike *aristeia* that rouses Tisiphone’s followers to arms until Theano stops them. This figure abruptly arrives at the funeral of the “breaker of horses” in the alleged incipit of the *Aethiopsis*. After committing soricide while hunting in Book 1 of Quintus’s *Posthomerica*, this foreign leader of 12 warriors replaces Hector as Troy’s champion. A Kleist tragedy reverses this bellatrix’s defeat by Achilles, whom Thersites mocks for lusting after her corpse. For 10 points, Vergil likely modeled Camilla on what sister of Hippolyta and queen of the Amazons?

ANSWER: **Penthesilea** [or **Penthesileia**; or **Pantasselle**] (The first two lines refer to Christine de Pizan’s *Epistle of Othea to Hector*, Benoît’s *Roman de Troie*, and Guido’s *Historia destructionis Troiae*.)

<Mythology>

13. *Note to moderator: Read the answerline carefully.* The products of this small-scale process exist in stable equilibrium on the ascending branch of a Köhler curve. *Pseudomonas syringae* secretes proteins that promote this small-scale process in plant cells, but can also promote it in the atmosphere. After an INP induces this process, its products rapidly grow due to a difference in vapor pressure in the Wegener–Bergeron–Findeisen process. For sulfuric acid hydrates, the presence of ammonia reduces this process’s free energy barrier, which generally decreases for clusters larger than the critical radius. At high mixing ratios above the lifting condensation level, this process occurs on CCNs. This process’s homogeneous form is unlikely, so it usually occurs on namesake “sites,” such as silver iodide seeds. For 10 points, name this process in which molecules aggregate to form a new phase.

ANSWER: **nucleation** [or **nucleate** or **nucleating**; accept water, droplet, or ice **nucleation**; accept ice-**nucleating** particle or ice **nucleation**-active proteins; prompt on **condensation**, **freezing**, **crystallization**, **deposition**, **phase transitions**, **phase changes**, descriptions of **droplet formation**, descriptions of **cloud formation**, or descriptions of the **formation of precipitation**, **hail**, **snow**, or **rain** by asking “what small-scale process is that initiated by?”] (An INP is an ice-nucleating particle. A CCN is a cloud condensation nucleus.)

<Other Science>

14. In a novel by an author with this surname, a eugenicist lectures his Singaporean secretary Naden about the coming “United States of Mankind” while on an Anthropological Mission in Malaya. An Auckland literary don with this surname was posthumously portrayed as the narcissistic philanderer “Karl” in his daughter Charlotte Grimshaw’s memoir *The Mirror Book*. A novel by an author with this surname ends with a girl nicknamed “Little Womey” and “Looloo” fleeing Spa House in Annapolis after “Mothering” drinks a cyanide-laced cup of tea. Randall Jarrell’s “An Unread Book” is an introduction to a novel by an author with this surname, in which the alcoholic Henny is tormented by the bizarre baby talk of her husband, the civil servant Sam Pollitt. For 10 points, the Australian author of *The Man Who Loved Children* had what surname and the first name Christina?

ANSWER: **Stead** [accept Christina **Stead**; accept C. K. **Stead** or Christian Karlson **Stead**]

<World Literature>

15. This ruler encouraged resettlement of the White Croats and sent priests to baptize their leader Porga. Under this ruler, a subject compiled the *Paschal Chronicle* and Theophylact Simocatta produced an early description of China. In the Swahili epic *Utendi wa Tambuka*, this ruler's brother kills three generals in a battle later avenged by the Expedition of Usama bin Zayd. Frescoes at Moldovița (“mol-doh-VEET-sah”) Monastery depict the Virgin's intercession to save this ruler's capital from a failed siege by the Avars, who were repulsed by his brother Theodore and Patriarch Sergius I. This ruler allied with the *spāhbed* usurper Shahrbarāz to return the True Cross to Jerusalem. Khālid ibn al-Walīd won the Battle of Yarmouk against this ruler, who earlier overthrew Phocas (“focus”). For 10 points, name this 7th-century emperor who ruled during the final Byzantine–Sasanian War.

ANSWER: **Heraclius** [or **Hērākleios**] (The third line refers to the Battle of Mu‘tah.)

<European History>

16. After the pregnant woman Abbey Lynn Steele was charged with this crime, Lakota activists challenged its unique 2013 statute in South Dakota. Measures to reduce charges for this crime, like Prop 122, were supported by New Approach, a DC-based PAC (“pack”) funded by Dr. Bronner's Magic Soaps, and opposed by Protect Colorado's Kids. The Idaho Citizens Coalition campaigned to reduce charges for “constructive” and “actual” forms of this crime to “legalize the drive.” Until 2023, Montana applied this crime to immunoassay test strips. In April 2024, Governor Tina Kotek signed a bill to repeal 2020's Measure 110, which reclassified this crime to partially decriminalize it in Oregon. This crime typically incurs higher penalties with intent to sell than personal use. For 10 points, what crime charges people found with Schedule I controlled substances?

ANSWER: drug **possession** [accept possession of specific drugs, such as marijuana **possession** or psilocybin **possession**; accept **possession** of controlled substances or personal use **possession**; accept drug **ingestion** or word forms; prompt on **drug use** or **ownership** or equivalents of each by asking “what is the legal term for the crime?”; reject “selling drugs” or “drug trafficking” or equivalents] (The test strips detect fentanyl.)

<Current Events>

17. Chemical ligation is used to create systems with this property that can access the 135 non-Sohncke (“non-ZONE-keh”) groups. Research on this property started with examples that naturally form eutectics and conglomerate into distinct domains. Materials with this property are the inputs for a technique pioneered by Vladimir Prelog's work with Troger's base, which often uses supercritical CO₂ as a mobile phase. If a reagent is cheap, it is practical to remove this bulk property through kinetic control by partially completing a reaction and discarding the products. This property is naturally present in the products of S_N1 reactions. Louis Pasteur used tweezers to show that sodium ammonium tartrate has this property, giving it an *ee* (“E-E”) of zero. For 10 points, name this property of mixtures with no optical activity due to an even split of opposite chiralities.

ANSWER: **racemic** mixtures [or **racemate**; accept quasi-**racemic**; accept **racemic** crystallography; prompt on opposite **chirality**, mixed **chirality**, **handedness**, or **achirality** until “chiralities” is read; prompt on **optically inactive** or equivalents until “optical” is read]

<Chemistry>

18. This word ends the title of a novel about the alcoholic Manfred Banks, who calls Old Crow whiskey “Dirty Bird.” In a story whose title begins with this word, Granddaddy Cain kills a chicken hawk and destroys the film of two men who intrusively shoot a movie for the county’s food stamp campaign. The title of that story by Toni Cade Bambara states that this word “Ain’t No Mockin Bird.” This word ends the title of a story that closes by comparing a glass of Scotch to Isaiah’s “cup of trembling.” The narrator of that story titled for this word notes how his uncle was hit by a car full of drunk white men. This is the last word in the title of a story from *Going to Meet the Man* in which a math teacher recalls his daughter Grace’s death from polio and his brother’s arrest for selling heroin. For 10 points, what genre titles a James Baldwin story about the pianist Sonny?

ANSWER: **blues** [accept “Sonny’s **Blues**”; accept “**Blues** Ain’t No Mockin Bird”; accept *Dirty Bird Blues*; reject “blue”] (*Dirty Bird Blues* is by Clarence Major.)

<American Literature>

19. In the 1690s, four epidemics hit this city’s *corregimiento* (“kor-RAY-heem-YEN-toh”). The *pucará* (“poo-kah-RAH”) of Rumicucho predated this city, where colonists like Juan de Velasco mythologized Queen Quilago (“kee-LAH-go”) of Cochasquí (“ko-chah-SKEE”) and Paccha Duchicela. Eugenio Espejo’s (“yoo-HEN-ee-oh ess-PAY-ho’s”) *New Lucian* satirized this city’s *real audiencia* (“RAY-ahl ow-dee-EN-see-ah”), which, like Charcas’s, fell in 1809 to an anti-Bourbon criollo (“cree-OH-yo”) junta. *Repatriamiento* (“ray-par-tahm-YEN-toh”) of Otavalo people staffed this city’s *obraje* (“oh-BRAH-hay”) textile mills, whose sheep grazed on Riobamba’s *páramo*. This modern capital city names the baroque art school of El San Francisco’s polychrome *Virgin*. After Huayna Cápac died in this northernmost city of Chinchay Suyu, Huáscar fought Atahualpa. Two years before Ayacucho, Antonio José de Sucre took this capital city after a battle on a nearby volcano. For 10 points, Pichincha overlooks what Andean capital north of Cuenca and Guayaquil?

ANSWER: **Quito** (“KEE-toh”) [or **Kitu**; accept **Quiteños**, **Quito** School, Escuela **Quiteña**, *Virgin of Quito*, *La Virgen de Quito*, Real Audiencia de **Quito**, Royal Audience of **Quito**, Presidency of **Quito**, Presidencia de **Quito**, Kingdom of **Quito**, Reino de **Quito**, **Quitú** culture, *The New Lucian of Quito*, or *El nuevo Luciano de Quito*] (Bernardo de Legarda sculpted the *Virgin*.)

<World History>

20. A critic with this first name called for African and Oceanic art to be shown in museums in the 1920 article “Will they be admitted into the Louvre?” This was the first name of an engraver and Sèvres (“SEV-ruh”) ceramicist who discovered prints of Hokusai’s *Manga* in packing paper; that popularizer of Japonisme with this name married Marie Bracquemond (“brack-MAWN”). Eerie landscapes like *The Ball* and interiors titled *Intimités* (“ann-tee-mee-TAY”) were painted by an artist with this first name nicknamed the “Foreign Nabi,” who was known for woodcuts with large sections of uninterrupted black. The term “Neo-Impressionism” was coined by a critic with this first name who holds a top hat and cyclamen (“SYKE-luh-men”) flower in front of swirling, colorful patterns in an 1890 portrait. For 10 points, Paul Signac (“seen-YACK”) painted a pointillist portrait of a goateed anarchist with what first name and the surname Fénéon (“fay-nay-AWN”)?

ANSWER: **Félix** [accept **Félix** Fénéon; accept **Félix** Vallotton or **Félix** Édouard Vallotton; accept **Félix** Bracquemond or **Félix** Henri Bracquemond]

<Painting & Sculpture>

BONUSES

1. Pia Arke (“ar-keh”) made “mongrel” art about a “hysteria” among women of this ethnicity, whose study at natural history museums inspired Kenn Harper’s *Give Me My Father’s Body*. For 10 points each:

[10m] Name this ethnicity of the women who were given involuntary IUDs in the Coil Campaign. The Utimut process repatriates heritage taken from this ethnic group on the Thule (“TOO-lee”) expeditions.

ANSWER: **Inuit** [or **Inuk**; accept Greenlandic **Inuit**, Grønlandsk **Inuit**, **Kalaallit**, **Inughuit**, **Inuhuit**, **Iivit**, or **Tunumiit**; accept **Eskimos**] (Many Inuit people regard the term “Eskimo” as pejorative. The “Arctic hysteria” is piblokto. Harper’s book is about Minik Wallace at the American Museum of Natural History.)

[10e] This country apologized for its Inuit “experiment children” but not its Virgin Islands slavery. Activists protested its sugar wealth by writing “racist fish” on its *Little Mermaid* statue.

ANSWER: **Denmark** [or Kingdom of **Denmark**, **Danish** Realm, **Danmark**, or **Danmarki**, accept **Danish** Empire, **Denmark**–Norway, **Danish** West Indies, **Danish** Virgin Islands, **Danish** Antilles, **Dansk** Vestindien, **Danske** Jomfruøer, or “Little **Danes**” experiment]

[10h] *Specific term required.* Denmark excluded Greenlandic and Faroese “minority literature” from these things defining its culture. The Dutch version of them added themes on Caribbean islands and Anton de Kom’s *We Slaves of Suriname*.

ANSWER: **canons** [accept **Canon** of the Netherlands, **Canon** of Dutch History, **Canon** van Nederland, region **canons**, or **Canon** of Curaçao; accept Danish Culture **Canon**, Kultur**kanonen**, Denmark **Canon**, or Danmarks**kanon**] (In Nordic countries, national literature is often contrasted with “minority literature” and “immigrant literature.”)

<Other Academic>

2. Wilhelm Cauer, who designed an “elliptic” type of these devices, also names a ladder topology used to create them from inductors and capacitors. For 10 points each:

[10e] Name these devices that are designed to stop all frequencies in their stopband. The “low-pass” type of these devices allows low-frequency signals to pass through.

ANSWER: **filters** [accept low-pass **filters** or elliptic **filters**]

[10m] Butterworth filters are designed to maintain a flat frequency response in the passband as compared to this Russian scientist’s namesake filters, whose poles are found using his namesake polynomials denoted by “ T sub n .”

ANSWER: Pafnuty **Chebyshev** [or Pafnuty Lvovich **Chebyshev**; accept **Chebyshev** filters or **Chebyshev** polynomials]

[10h] Butterworth filters have a worse value of this quantity than Chebyshev filters, meaning that the stopband is not as well-defined because the response has a smaller slope at its edges.

ANSWER: **roll-off**

<Physics>

3. A subject of this empire converses with a fiery spirit resembling his sister Elsa after falling on hard times in its metropole. For 10 points each:

[10e] Name this empire, the setting of the novella “The Salamander.” A country in this empire that was called its “little” counterpart is the setting of the collection *Evenings on a Farm Near Dikanka*.

ANSWER: **Russia** [or **Russian** Empire or **Rossiya** or **Rossiyskaya** Imperiya] (“The Salamander” is by Vladimir Odoyevsky.)

[10h] Imperial Russia only features explicitly in this entry of Nikolai Gogol’s Dikanka stories. In this story, the Devil flies a blacksmith to St. Petersburg so he can ask Catherine the Great for her slippers.

ANSWER: “**Christmas Eve**” [or “The **Night Before Christmas**”; or ***Nich pered Rizdvom***]

[10m] Antony Pogorelsky’s *My Evenings in Little Russia* is an imitation of this author. A Soviet circle called the Serapion Brothers drew on the “serapiontic principle” of this author, whose *Golden Pot* influenced Gogol.

ANSWER: E. T. A. **Hoffmann** [or Ernst Theodor Amadeus **Hoffmann**; or Ernst Theodor Wilhelm **Hoffmann**]
<European Literature>

4. An Abkhazian-born statesman with this name promoted the ‘ulamā’s separation of powers in *The Surest Path* and visited Paris with the Fundamental Pact’s author Bin Diyāf. For 10 points each:

[10m] Give this name of a reformer who created the Sadiki *lycée* (“lee-SAY”) under Sadok Bey. A *beylerbeyi* (“BAY-lar-bee”) of Algiers who went by this Islamic name captured Ḥafṣid Tūnis after the Zayyānids killed his brother Oruç (“oh-ROOCH”).

ANSWER: **Hayreddin** [or **Hayrettin**, **Khair al-Dīn**, **Khayr ad-Dīn**, or **Kheireddine**; accept **Hayreddin** Barbarossa, **Khair al-Dīn** Barbarus, Hızır **Hayrettin** Pasha, or variants; accept **Hayreddin** Pasha, **Khayr ad-Dīn** Pāshā t-Tūnisiyy, **Khair al-Dīn** al-Tunsi, or Tunuslu **Hayreddin** Paşa; prompt on **Barbarossa**, **Barbarus**, **Khidr**, **Khidr**, **Hızır**, *mevlāna*, or *sultānū’l mucāhid* by asking “what Islamic name did he generally use?”]

[10h] *Arabic-derived name required*. Hayreddin Pasha’s Grand Council was created by Tunisia’s 1861 *Qānūn al-Dawla*, which this party tried to restore in the 1920s. Ḥabīb Bourguiba reorganized this party to oppose the French Residence in 1934.

ANSWER: **Destour** Party [or **Destūr** or **Dustur** or al-Ḥizb al-Ḥurr ad-**Dustūrī**; accept Neo-**Destour** Party or el-Ḥizb el-Ḥurr ed-**Dustūrī** el-Jadīd; accept Socialist **Destourian** Party or el-Ḥizb el-Ishtirākī ed-**Dustūrī** or Parti socialiste **destourien**] (Its name means “constitution.”)

[10e] This founding monarch issued a 1926 *destūr* basic law for the Hejaz after he conquered Hussein’s Hashemite kingdom from the Nejd and unified much of Arabia.

ANSWER: **Ibn Saud** [or **Ibn Su’ūd**; or Abdulaziz **bin Saud**; or **Abdulaziz** bin Abdul Rahman or **Abd al-‘Azīz** bin ‘Abd ar-Raḥman; or Abd al-‘Azīz **bin** ‘Abd ar-Raḥman Āl **Su’ūd**; prompt on **Saud** or Āl **Su’ūd** or **Saudī** family]
<World History>

5. In 1967, this art dealer's father co-founded Art Cologne, the oldest contemporary art fair in the world. For 10 points each:

[10h] Name this German art dealer whose empire now rivals Larry Gagosian's. In 2023, he launched an LA gallery with an exhibition of photo-transferred paintings by the Nigerian artist Njideka ("in-jee-DAY-kuh") Akunyili Crosby.

ANSWER: David **Zwirner** [accept David **Zwirner** Gallery]

[10e] Zwirner's gallery in Chelsea, Manhattan, is near this museum, which hosts a prominent biennial and was founded by a Vanderbilt family patron.

ANSWER: **Whitney** Museum [or The **Whitney**; or **Whitney** Museum of American Art; accept **Whitney** Biennial; accept Gertrude Vanderbilt **Whitney**]

[10m] Zwirner also has an art gallery in this city, which hosts a museum of visual culture called M+ and the first White Cube gallery outside London. Norman Foster designed a bank in this city with exposed suspension trusses and maintenance cranes that look like cannons.

ANSWER: **Hong Kong** [or **HK**, **Xiānggǎng**, **Hoeng gong**, **Hionggong**, or **Hēunggóng**] (Foster designed the HSBC Building.)

<Other Fine Arts>

6. Nonsteroidal drugs targeting this receptor, which include flutamide, are silent antagonists with lower affinity but fewer off-target effects. For 10 points each:

[10m] Name this nuclear receptor. Mutations in this protein can result in castration-resistant varieties of cancer.

ANSWER: **androgen** receptor [or **AR**; accept **AR** antagonists; accept nonsteroidal anti**androgens**]

[10e] Antiandrogens are administered alongside these hormones in feminizing hormone replacement therapy. HRT aimed at menopausal women involves these hormones and progesterones.

ANSWER: **estrogens** [accept **estradiol** or **estrone**]

[10h] This drug is the first-choice antiandrogen for feminizing HRT everywhere but Japan and the US, where chlormadinone or spironolactone must be used instead. Direct comparisons indicate that this drug is markedly better at lowering testosterone than spiro but comes with a risk of liver damage.

ANSWER: **cyproterone** [accept **cyproterone** acetate or **CPA**; accept **Androcur** or **Cyprostat**]

<Biology>

7. In an epic in this language, Abtin marries a Korean princess after fleeing a king with elephant ears and tusks. For 10 points each:

[10e] Name this language of a poetry collection used to caption pornographic cartoons in Osamu Dazai's novel *No Longer Human*. Edward Fitzgerald translated that set of quatrains from this language.

ANSWER: **Persian** [or **Fārsī**] (The epic is the *Kushnameh* by Irānshāh, while the collection is the *Rubā'iyāt* of Omar Khayyam.)

[10h] A member of the Persian Ming Cult sings lines from the *Rubaiyat* in the third entry of this trilogy, *The Heaven Sword and Dragon Saber*. Louis Cha used the pen name Jīn Yōng for this trilogy of wūxiá ("woo-shyah") novels.

ANSWER: **Condor** Trilogy [or **Shèdiāo** *Sānbùqǔ* or **She-tiao** *San-pu-ch'ü* or **Se Diu** *Saam Bou Kuk*; accept *The Legend of the Condor Heroes* or **Shèdiāo** *Yīng Xióng Zhuàn* or **She-tiao** *Yīng-hsiung Ch'uan* or **Se Diu** *Jing Hung Zyun*]

[10m] This other Persian-language work is performed at a Seoul audio theater in Bae Suah's *Untold Night and Day*, whose protagonist reads it in German. This novel by Sadegh Hedayat is titled for a bird hallucinated by its narrator.

ANSWER: *The **Blind Owl*** [or **Boof-e koor**]

<World Literature>

8. A foundling and a cat legendarily survived the Saint Elizabeth's Flood on one of these structures, which initiated Beemster's recovery from the "water wolf." For 10 points each:

[10e] Name these structures that enclosed reclaimed polders managed by water boards in the Dutch Republic.

ANSWER: **dikes** [or **dijken**; or **levees**; or **embankments** or **flood banks** or **stop banks**; accept Kinder**dijk**; prompt on **banks**]

[10h] In 1730, dike inspectors publicized a "plague" of these animals, which stoked fears of another Christmas Flood and led to sodomy trials in Utrecht. These animals inspired Marc Isambard Brunel's tunneling shield.

ANSWER: **shipworms** [or **Teredo navalis** or **T. navalis**; prompt on **clams**, **bivalves**, **mollusks**, or **Mollusca**; prompt on **worms**]

[10m] Since the eastern Baltic is too cold for shipworms, it preserved the wrecks of the *Gribshunden* and this intact 17th-century warship. An archaeologist-king sponsored this ship's salvage for its namesake Stockholm museum.

ANSWER: **Vasa** [or **Wasa**; accept **Vasamuseet** or **Vasa Museum**] (The king was Gustaf VI Adolf.)

<European History>

9. "Tickles" may bridge the gap between two approaches to the "Death in Damascus" problem that this thinker outlined with William Harper. For 10 points each:

[10m] Name this thinker who developed norm-expressivism in *Wise Choices, Apt Feelings*. With Mark Satterthwaite, this thinker names a voting theorem that is analogous to Arrow's impossibility theorem.

ANSWER: Allan **Gibbard** [or Allan Fletcher **Gibbard**; accept **Gibbard**-Satterthwaite theorem]

[10e] Gibbard and Harper defined two types of decision theory: "evidential" and one named for this phenomenon. Hume argued that our belief in this phenomenon arises from the "constant conjunction" of two events.

ANSWER: **causation** [accept word forms like **causality** or **causes**; accept **causal** decision theory; accept **cause** and effect]

[10h] *Description acceptable*. Causal decision theory recommends this solution to Newcomb's problem, since this action dominates the alternative and your choice cannot influence the prior actions of the Predictor.

ANSWER: **two-boxing** [accept descriptions of taking **both boxes**] (In the 2020 Philpapers survey, 38 percent of respondents were two-boxers, 33 percent were one-boxers, and 30 percent were undecided.)

<Philosophy>

10. Hanes and Fruit of the Loom contractors for this country's "assembly zones" reduced a 2009 increase in its minimum wage, the lowest in the Americas. For 10 points each:

[10e] Name this country whose export processing zones in the capital's flood-prone Cité Soleil ("see-TAY soh-LAY") shantytown doubled their wages under Jean-Bertrand Aristide.

ANSWER: **Haiti** [or Republic of **Haiti** or République d'**Haïti** or Repiblik d **Ayiti**]

[10h] This 2006 book notes the 90-hour workweeks of Haiti's domestic *restavek* children. This Mike Davis book analyzes deindustrialized "pirate urbanization" in peripheral settlements like *chawls*, *colonias*, and *barriadas*.

ANSWER: **Planet of Slums** [or **Planet of Slums: Urban Involution and the Informal Working Class**]

[10m] *Planet of Slums* describes the land speculation fueling the growth of this megacity, the world's poorest and densest. Over 200 garment brands signed a safety accord after an industrial disaster near this city in 2013.

ANSWER: **Dhaka** [or **Dhākā** or **Dacca**; accept **Savar** Upazila or **Dhaka** District or **Dhākā jēlā**] (The disaster was the Rana Plaza collapse.)

<Geography>

11. Stuxnet interfered with these devices by targeting the programmable logic controllers, or PLCs, that operated them in an Iranian uranium enrichment plant. For 10 points each:

[10e] Name these devices that separate samples into components with different sedimentation coefficients.

ANSWER: **centrifuges** [accept gas **centrifuges**]

[10m] When Stuxnet finds a target PLC, it rewrites one of these files that contains the routines used to communicate with the PLC. These files are Windows-specific shared libraries.

ANSWER: **DLLs** [or **dynamic-link** library or **dynamic-link** libraries]

[10h] These systems, which are known by a five-letter acronym, use PLCs or remote terminal units to relay information to human machine interfaces monitored by operators. Distribution control systems and these systems are widely used for centralized control of industrial processes.

ANSWER: **SCADA** (“scad-uh”) systems [or **supervisory control and data acquisition** systems]

<Other Science>

12. Some reports blamed obstacles to Japan’s COVID-19 response on this concept, which allegedly stigmatizes both healthcare workers exposed to illness and people recovering from it. For 10 points each:

[10h] Name this Shinto concept of spiritual pollution that grows through contact with physical pollution. This concept is the target of purification rituals like *misogi*.

ANSWER: **kegare**

[10m] Shrine attendants can ritually purify visitors with an *onusa*, a staff topped with this material. Objects called *shide* made of this material hang from ropes that define sacred spaces or mark trees where *kodama* live.

ANSWER: **paper** [or **washi**]

[10e] Sprinkling this substance on the ground, as sumo wrestlers do before matches, also purifies *kegare*. In Matthew Chapter 5, Verse 13, Jesus calls his followers this substance “of the earth.”

ANSWER: **salt** [accept **sodium chloride** or **NaCl**]

<Religion>

13. Answer the following about *niello*, a black alloy of sulfur that was often used for metalwork and inlaying, for 10 points each.

[10m] A Mycenaean shaft grave was the site of a dagger inlaid with *niello* that depicts one of these events. In an Assyrian artwork made of alabaster, three registers of low relief show the title figure riding a chariot during one of these events.

ANSWER: **lion hunt** [accept *The Lion Hunt of Ashurbanipal*; accept *Lion Hunt Dagger*; accept **lionesses** in place of “lions”; prompt on **hunting** or equivalents by asking “hunting what animals?”]

[10e] *Niello* was extensively used in Anglo-Saxon metalwork, like the Fuller Brooch (“broach”) unearthed at this site. King Rædwald (“RAD-wold”) may be the dedicatee of the ship burial unearthed at this East Anglian site.

ANSWER: **Sutton Hoo**

[10h] *Niello* inlay was used for a brass *baptistère* (“bah-tee-STAIR”) from this empire that was used to baptize Louis XIII. Venetian glass was greatly influenced by the enameled and gilded glass created by this empire.

ANSWER: **Mamluk** Sultanate [or **Mamluks**; or Salṭanat al-**Mamālīk**; accept **Mamluk** Egypt; reject “Egypt”]

<Painting & Sculpture>

14. The preface to a posthumous 1920 collection declares that its subject is not Poetry, but war and this aspect of war, explaining that “the Poetry is in” this thing. For 10 points each:

[10h] Name this concept described as “the truth untold” and “distilled” in the poem “Strange Meeting,” which goes on to state, “Now men will go content with what we spoiled.”

ANSWER: “the **pity** of war” [accept “the **pity** of war, the pity war distilled”]

[10e] This English poet of “Strange Meeting” asked, “What passing-bells for those who die as cattle?” in his poem “Anthem for Doomed Youth.”

ANSWER: Wilfred **Owen** [or Wilfred Edward Salter **Owen**]

[10m] This other poet used phrases like “Thu bist” and “Er war” to show the shared heritage of English and German in his 1915 poem “The Pity of It.” His earlier poem “The Man He Killed” was inspired by the Boer War.

ANSWER: Thomas **Hardy**

<British Literature>

15. The Nányuè (“nahn-yoo-eh”) kingdom was founded by a general from this state, whose Vietnamese cognate names a woman who supposedly charged Eastern Wú forces on an elephant. For 10 points each:

[10h] Name this state whose King Wǔlíng (“woo-leeng”) is credited with China’s first cavalry and nomadic trousers. Shǐ Huángdì (“shurr hwahng-dee”) was born at Hándān in this state during the Warring States era, when Qín (“chin”) broke its power at the Battle of Changping.

ANSWER: **Zhào** (“jao”) [or **Chao**, **Chiu**, **Ziu**, or **Tiō**; accept **Zhào** Zhèng or **Chao** Cheng; accept **Zhào** Wǔlíng or **Chao** Wuling; accept Lady **Triệu**, Bà **Triệu**, Pó **Zhào**, **Triệu** Âu, **Zhào** Yù, or **Triệu** Thị Trinh; accept **Zhào** Tuó, **Chao** T’o, **Ziu** To, **Triệu** Đà, **Triệu** dynasty, **Zhào** dynasty, or Nhà **Triệu**; reject “Zhōu” or “Chou”]

[10e] Zhào’s (“jao’s”) minister Lìn Xiāngrú (“lin shee-ahng-roo”) returned Mr. Hé’s (“huh’s”) renowned disc of this material from Qín. Nányuè and Hàn burial suits were made of its nephrite variety.

ANSWER: **jade** [or **yù**; accept **jadeite**; accept **jade** burial suits or **yù** yī; accept Mr. Hé’s **jade**, Hésì**bì**, Ho-shih-**pi**, or Wo-si-**bik**; accept **bì** discs, **pi** discs, “returning **jade** to Zhào,” or wán **bì** guī Zhào; prompt on **rocks**, **minerals**, **gemstones**, **precious stones**, **silicates**, or equivalents of any]

[10m] Before this man opened new routes, jade and horses were imported from Dài, which Zhào annexed from Hú peoples. This Hàn explorer described Dàyuān’s (“dah-yoo-en’s”) “heavenly horses” in the Western Regions.

ANSWER: **Zhāng** Qiān [or **Chang** Ch’ien or **Zoeng** Hin] (Hú is an umbrella term for foreign peoples such as the Dí and Róng.)

<Other History>

16. Name these pieces orchestrated by Maurice Ravel, for 10 points each.

[10e] Different combinations of instruments begin each of the four Promenades in Ravel’s orchestration of this piano suite based on Russian paintings.

ANSWER: ***Pictures at an Exhibition*** [or ***Pictures from an Exhibition***; or ***Tableaux d’une exposition***; or ***Kartínki s výstavkí***] (by Modest Mussorgsky)

[10m] Ravel’s orchestration of this very slow G-major piano piece of his calls for two horns pitched in G: the first horn states the opening theme, under which the other horn plays long chords with the bassoons.

ANSWER: ***Pavane for a Dead Princess*** [or ***Pavane pour une infante défunte***]

[10h] Ravel’s orchestration of this piano movement begins with plucked harp and strings mimicking a Spanish guitar. This movement is from the same collection as “A Barque on the Ocean,” which he also orchestrated.

ANSWER: ***Alborada del gracioso*** [or “**Aubade of the Jester**” or equivalent translations; accept “**morning song**” or equivalents in place of “aubade”; accept **clown** or **buffoon** or equivalents in place of “jester”; prompt on **alborada** or **aubade**]

<Classical Music>

17. This city's Chief of Police "Wappy" Wappenstein required sex workers to pay 10 dollars per month to operate as part of the "open town" policy. For 10 points each:

[10m] Name this city where suffragette Adella Parker campaigned to recall Mayor Hiram Gill. Hardline tactics during a 1919 general strike in this city catapulted Ole Hanson to national prominence.

ANSWER: **Seattle** [accept 1919 **Seattle** General Strike]

[10h] Seattle voters approved funding a permanent location of this type in Firland. These locations proliferated in Southern California in the 1910s and '20s, including La Viña and the predecessor of Loma Linda University.

ANSWER: **sanatoriums** [or **sanatoria**; accept **tuberculosis hospital** or **TB hospital** or equivalents; accept Loma Linda **Sanatorium** or La Viña **Sanitarium** or Firland **Sanatorium**; prompt on **hospitals**, **rest homes**, **resorts**, or **convalescence** areas; reject "asylums"]

[10e] Gill won back his mayoral seat on the "closed town" policy meant to gain support from this labor union. Later that year, some "Wobblies" in this union were killed in the Everett Massacre.

ANSWER: **IWW** [or **Industrial Workers of the World**]

<American History>

18. Carol Mukhopadhyay ("moo-ko-POD-yay") documented how US immigration law entrenched this misleading term, which today names hunter-gatherers who were ancestors of Yamnaya ("YAM-nuh-yuh") herders. For 10 points each:

[10e] Name this supposed "race" defined by J. F. Blumenbach. The Göttingen school's 19th-century craniometric studies ranked it above Mongolians and gave it "Hamitic," "Semitic," and "Aryan" subdivisions.

ANSWER: **Caucasian** race [or **Caucasoid** race or **kaukasische**; accept **Caucasus** Mountains, **Oafqaz**, **Kavkaz**, or **Kavkasioni**; accept **Caucasus** Hunter Gatherers or **Caucasian** Hunter Gatherers]

[10h] This Georgian site preserved actual Caucasian crania from early Pleistocene ("PLYCE-toh-see") hominins. This site's postcrania, the oldest known outside Africa, display a mosaic of *Homo erectus*, *H. habilis*, and *H. ergaster* features.

ANSWER: **Dmanisi** ("d'muh-NEE-see") [accept **Dmanisi** hominins or **Dmanisi** skulls or **Dmanisi** crania]

[10m] Upper Paleolithic Caucasian caves like Bondi help date Europe's settlement by these humans known from Buran Kaya III in Crimea. Paleoanthropologists contrast this type of phenotypic "modernity" with behavioral modernity.

ANSWER: **anatomically** modern humans [or **early** modern humans or **AMHs** or **EMHs**; or **anatomical** modernity or word forms of **anatomy**]

<Social Science>

19. Bombarding superheavy nuclei with a doubly magic isotope of this element led to the discovery of elements in flerovium's "island of stability." For 10 points each:

[10h] Name this lightest element capable of double beta decay. A practically stable isotope of this element is the heaviest with a proton-to-neutron ratio of one and is also doubly magic.

ANSWER: **calcium** [or **Ca**; accept **calcium-48** or **calcium-40**]

[10m] Yuri Oganessian fused calcium-48 with target nuclei at this Russian town's Joint Institute for Nuclear Research. Flerovium is named for Georgy Flyorov's work on superheavy elements in this town, which names element 105.

ANSWER: **Dubna**, Russia [prompt on **dubnium** or **Db**]

[10e] Most transfermium elements are merely "stamp-collecting," as the heaviest abundant enough for chemistry is the element named for this scientist who formulated mass-energy equivalence.

ANSWER: Albert **Einstein** [accept **einsteinium**; prompt on **Es**]

<Chemistry>

20. Upon receiving the snakeskin jacket of a man who represents this mythological figure, Carol remarks that “wild things leave skins behind them” so that “the fugitive kind can always follow their kind.” For 10 points each:

[10h] Name this title figure of a 1957 play adapted from its author’s earlier *Battle of Angels*. In that play, this figure is represented by Val, who dies in a fire set by Lady Torrance’s jealous husband.

ANSWER: **Orpheus** [accept *Orpheus Descending*] (Tennessee Williams wrote *Orpheus Descending*.)

[10e] In *Orpheus Descending*, Carol says she met Val in this city. In another Tennessee Williams play set in this city, Blanche tries to stop Stanley from reading her dead husband’s love letters.

ANSWER: **New Orleans** [or **NOLA**] (The second play is *A Streetcar Named Desire*.)

[10m] In this playwright’s *Eurydice*, Orpheus is unable to read a love letter after riding an elevator that rains inside. She also wrote *In the Next Room (or the Vibrator Play)*.

ANSWER: Sarah **Ruhl**

<American Literature>