

2022 Winter Closed

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Packet H

Tossups

1. **A ship named for these animals carried Hawaiians to conduct a trade deal with Alexander Baranov before returning to a site renamed Fort George during the War of 1812. Bands of promyshlenniki (“pro-MISH-len-ick-ee”) defended secret combing methods of separating barbed hair on these animals. Standardized tokens named for being “Made” of these animals were equal to one blanket. The D’Orsay (“dor-SAY”) and Paris Beau were designs for objects that were popularized after the HMS *Nonsuch* brought these animals to London. They’re not rabbits, but (*) “parchment” from these animals was dipped into nitric acid and mercury salts to remove keratin scales in the process of carotting. The Algonquin made robes with “greasy” pelts from these animals and sold them to *coureurs des bois* (“koo-RURR day bwah”) and the Hudson’s Bay Company. For 10 points, European hats were popularly made from the fur of what large rodents of the Americas?**
ANSWER: **beavers** [accept **castor** sec; accept **castor** gras]

<Evans, Other History>

2. **An artist who was so “sick of” this genre that he wished to play his viola da gamba departed from it late in his career with so-called “fancy pictures” inspired by Bartolomé Murillo (“moo-REE-yo”). Godfrey Kneller used a 36-by-28-inch format for paintings in this genre that were named for the Kit-Cat Club. Peter Lely helped pioneer opulent “swagger” paintings in this genre. The lecture series *Discourses on Art* sought to elevate this genre to the status of history painting by applying the (*) “grand manner” style. An artist left an unpainted patch in a painting that fused landscape with this genre and includes a dog looking at a rifle. English paintings in this genre influenced by the work of Anthony van Dyck include one kept at the Huntington Library and one named for Jonathan Buttall’s blue outfit. For 10 points, Joshua Reynolds and Thomas Gainsborough mostly painted in what genre that depicts people?**

ANSWER: **portraits** [or **portraiture**; accept group **portraits** or swagger **portraits** or kit-cat **portraits**; reject “self-portraits”] (The paintings are *Mr. and Mrs. Andrews* and *The Blue Boy*.)

<R. Keyal, Painting and Sculpture>

3. A sonnet compares this movement's decline to "luscious fruit [that] must fall when over-ripe" and imagines the poet of "My Beautiful Lady" in "Australia [cooking] his chops." In a poem from this movement inspired by "The Raven," the title woman's lover says the parenthetical asides "I saw her smile" and "I heard her tears." Charles Buchanan's essay "The Fleshly School of Poetry" attacks this movement, whose goal "to have genuine ideas to express" was put forth in a journal titled for "the (*) Germ" of an idea. One poet from this movement described a woman with hair "yellow like ripe corn" who "lean'd out / From the gold bar of Heaven" in "The Blessed Damozel," while another wrote of the title creatures urging Lizzie and Laura "come buy, come buy" in "Goblin Market." For 10 points, the Rossetti's were part of what movement that resisted an Italian artist's influence? ANSWER: Pre-Raphaelite Brotherhood [or the Pre-Raphaelites; or the PRB; accept Fleshly School until read] (The first line quotes Christina Rossetti's poem "The P.R.B." and references Thomas Woolner.) <R. Keyal, Poetry>

4. This thinker wrote that the New World empires would never have been conquered by Europeans "if a Descartes had come" and taught them to abandon their superstitions. In one work, this thinker included a satirical list of arguments in favor of slavery, which he thought was always wrong, though understandable in environments that encourage sloth. This thinker's studies of sheep's tongues informed his theory that people are less frank and more amorous in (*) warmer climates, so such climates are less suited for democracy. James Madison's Federalist No. 47 builds on a theory this thinker developed to reduce the risk of despotism. For 10 points, name this French Enlightenment philosopher who advocated the separation of powers in *The Spirit of the Laws*. ANSWER: Montesquieu ("MON-teh-SKEW") [or Charles Louis de Secondat, Baron de la Brède et de Montesquieu] <French, Philosophy>

5. Brace expansion is not supported by one of these programs named for Kenneth Almquist. In 2014, the process for parsing imported functions in one of these programs was announced as an arbitrary code execution vulnerability. A double asterisk is used in the extended globbing feature of one of these programs with a popular community-developed framework called "Oh My" followed by the name of that program. These programs must surround conditional expressions by single square brackets to have syntax compliant with POSIX ("PAUSE-ix") standards. In these programs, the expression (*) "two, greater than, ampersand, one" pipes stderr ("standard-error") to stdout ("standard-out"). These programs typically display the current user, hostname, and working directory followed by a dollar sign in their prompts. For 10 points, name these programs, such as Bash, that execute commands typed into a terminal. ANSWER: shells [accept zsh, ash, or Dash; accept Bash until read; prompt on terminal until read by asking "what program is run in a terminal?"; prompt on scripts by asking "what program runs scripts with that syntax?"; prompt on interpreters, command line interfaces, or CLIs; prompt on command prompts] (The first three sentences refer to ash/Dash, Shellshock/Bashdoor, and zsh.) <A. Keyal, Other Science>

6. Responses to racism in the United States and this country were compared by Carl Degler in *Neither Black nor White*. Politicians in this country popularized the narrative of an African slave who became a wealthy socialite to justify its “racial democracy.” An anthropologist from this country argued that its people were superior because its colonizers introduced the blood of Moors and Indians in works such as *The Masters and the Slaves*. This country’s (*) *sertanejos* (“sair-ta-NAY-zhoos”), or frontiersmen, were treated sympathetically in a book describing the War of the Canudos. This present-day country received the most slaves from the Transatlantic slave trade. In 1888, this country’s Princess Isabel passed the Golden Law, making this country the last in the Western Hemisphere to abolish slavery. For 10 points, many Angolans were sent as slaves to what former Portuguese colony?

ANSWER: **Brazil** [or Federative Republic of **Brazil**; or República Federativa do **Brasil**] (The second clue refers to Xica da Silva. *The Masters and Slaves* is by Gilberto Freyre.)

<Parameswaran, World History>

7. Public outrage erupted after Stanley Rabinowitz and Katie Flynn became victims of this crime in 2005. As Nassau County District Attorney, Kathleen Rice’s first major initiative was to enforce harsher punishments for this crime. One study looking at levels of this crime advanced the idea of the Grand Rapids Dip; that study was conducted by Robert Frank Borkestein. Quantitative standards for this crime were created in (*) Leandra’s Law. The use of an IID may be mandated as an alternative sentence for this crime. The Horizontal Gaze Nystagmus Test and the Walk-and-Turn Test are used to determine if this crime has occurred. After the death of her daughter, Candace Lightner founded a nonprofit to prevent this crime called MADD. For 10 points, name this crime whose suspects are typically caught after having over 0.08 percent BAC on a breathalyzer while operating a vehicle.

ANSWER: **driving** under the **influence** of alcohol [or **DUI**; or **impaired driving**; or **operating while intoxicated** or **OWI**; accept **DWI**; accept **drunk driving**; prompt on **alcoholism** or **drugs**; prompt on second-degree **murder** until “harsher” is read]

<Kulkarni, Other Academic>

8. For paths between equilibrium states, the ratio of this quantity to its value when time is reversed equals the exponential of thermodynamic beta times the difference between the work done and “delta *F*.” For a Markovian system to be in detailed balance, the product of two values of this quantity must remain the same when their indices are swapped. The ergodic hypothesis implies that this quantity is the same for any microstate compatible with a given macrostate. In the canonical ensemble, this quantity is obtained by (*) normalizing a Boltzmann factor by the partition function. Ensembles in statistical physics are analogous to spaces named for this quantity, which are defined using a sample space, an event space, and a distribution function that assigns this quantity. For 10 points, name this quantity, the likelihood that a system is observed in a particular state.

ANSWER: **probability** [accept transition **probabilities**; accept **probability** distribution function; accept **probability** spaces; prompt on **PDF**; prompt on transition **rates** until “microstate” is read by asking “transition rates are the time derivative of what quantity?”] (The first sentence is the Crooks fluctuation theorem.)

<Liu, Physics>

9. In a rain-charm from this text, frogs bellow like cows and bleat like goats. Dice made from brown nuts earn a man the scorn of his family in the “Gambler’s Lament” from this text. A verse from this text implies that even gods might not know from “whence [creation] first came into being.” The “Riddle Hymn” from this text lists “many a title” for “what is One,” leading to its citation in support of Max Muller’s henotheistic theory. A figure with a thousand eyes and a thousand feet is sacrificed in an episode described in the tenth (*) *mandala* of this text, which explains how the four castes came to be. At a coming-of-age ceremony in which a boy receives a string tied around his wrist, recitation of “om̐ bhūr bhuvah̐ svaḥ” precedes the Gayatri Mantra from this text. A hymn to Agni opens, for 10 points, what oldest text of the Vedas?

ANSWER: Rigveda [prompt on the Vedas until read]

<Yang, Religion>

10. This woman’s death is caused by a lady said to be the “object of [man’s] eternal fear” in “An Account of the Shrine in the Fields,” a fictional essay in the novel *Masks*. A folded dress represents this woman’s spirit in a “madwoman play” whose setting was changed to a hospital for a set of “five modern plays.” In a chapter titled for this woman, translated as “Heartvine” by Edward Seidensticker, a feud over carriages on a festival day leads to her possession by a jealous evil (*) spirit and her death in childbirth. This woman remains distant to her husband, unlike a “violet” stand-in for the author whom he kidnaps. At age 16, this daughter of the Minister of the Left is married to her 12-year-old cousin, a “Shining Prince,” whose many affairs with women like Lady Fujitsubo anger her. For 10 points, what lady marries the title character of a novel by Murasaki Shikibu?

ANSWER: Lady Aoi (“OW-ee”) [or Aoi no Ue; prompt on the first wife of Hikaru Genji or equivalents; prompt on answers such as wife by asking “of whom?”] (*Masks* is by Fumiko Enchi, and the second line refers to Yukio Mishima’s *Five Modern Noh Plays*.)

<R. Keyal, Long Fiction>

11. After traveling with Maxime du Camp, Gustave Flaubert reportedly kept a broken part of one of these objects on his desk. Gerard of Cremona helped popularize the theory of the Arab physician al-Razi that these objects had medicinal properties. These objects were ground and mixed with rhubarb in a medicine drunk by French king Francis I. Thomas Pettigrew gained a nickname referring to these objects after staging exhibitions for Giovanni Belzoni and frequently held Victorian-era parties where they were (*) unwrapped. Black coating on many of these objects led Persians to believe that they contained bitumen, thus coining their English name. Horizontal lines of lapis lazuli appear on a gold mask that covered one of these objects until Howard Carter removed it from KV62. For 10 points, name these preserved corpses that were obtained from Egypt.

ANSWER: mummies [or mummy; accept mumia; prompt on dead bodies, corpses, cadavers, etc.]

<Parameswaran, European History>

12. After this character is told to “go and hang yourself,” he mocks the insult for being delivered unemphatically. This character says that words are like flour before sprinkling flour on another character as part of an initiation rite. This character compares the mind’s thoughts to the moisture of watercress after he is introduced in a scene in which he claims to “tread on air” and “contemplate the sun” while in a basket. An (*) institution led by this character, which can teach “how to win an argument on any cause, just or unjust,” is attended by the abstract characters Better Argument and Worse Argument. After a student of this character claims that beating his father is the same as caring for him, that father, Strepsiades, burns down this character’s Thinkery. For 10 points, name this real-life philosopher portrayed as a Sophist in Aristophanes’ *The Clouds*.

ANSWER: Socrates

<Lo, Drama>

13. An extended cadenza in one piece for this instrument was only formally included in a controversial edition made by its dedicatee's son Carl. Maximilian Ludwig I bought 50 tickets to the premiere of a piece for this instrument whose C minor introduction gives way to four variations. The soloist enters on a high E-flat and then plays an E-flat three octaves lower in a piece written for an early modern, ten-key form of this instrument. The (*) "throat tones" mark the weakest point in the tonal range of this instrument. Heinrich Baermann popularized using one's bottom lip to play this instrument and premiered an E-flat major *Concertino* for it. That piece's success led Carl Maria von Weber to compose two concerti for this instrument, whose register key jumps between its chalumeau ("sha-loo-MOH") and namesake registers. For 10 points, name this single-reed woodwind instrument.

ANSWER: clarinet

<Egol, Classical Music>

14. This country's president earned the nickname "Pilato" after Pontius Pilate for the harsh punishments given to his military unit while he was exiled in a neighboring country. Michela Wrong's 2021 book *Do Not Disturb* describes the murder in a Johannesburg hotel room of this country's former head of intelligence, Patrick Karegeya. This country fought its northern neighbor over a much larger country's mineral resources in a six-day conflict in Kisangani. An activist from this country who wrote the autobiography (*) *An Ordinary Man* is currently being detained on likely spurious terrorism charges. This country's president was the leader of the RPF militia that won a civil war against the Interahamwe ("inter-ah-HAHM-way"), who had been carrying out mass killings of a minority population. For 10 points, name this country led by Paul Kagame, where Paul Rusesabagina sheltered Tutsis in his hotel during a 1994 genocide.

ANSWER: Rwanda (The northern neighbor is Uganda, and the much larger country is the DRC.)

<Raje, Current Events>

15. Ragulator localizes Rag GTPases ("G-T-P-aces") to the surface of these organelles, where Rag proteins translocate a complex containing PRAS40 into compartments containing the G protein Rheb. HSC70 binds to proteins with a KFERQ motif and brings them to a multimeric LAMP2A ("lamp-two-A") complex, which then translocates them into this organelle in the chaperone-mediated form of one pathway. Atg proteins orchestrate the transport of molecules to this organelle in a pathway inhibited by mTORC1 ("M-tor-C-one"). Cathepsins ("kuh-THEP-sins") are mostly unstable outside of their home in this organelle. Deficiency of (*) hexosaminidase A ("hex-ohs-ah-min-ih-dace A") in these organelles leads to the accumulation of GM2 gangliosides. Cell components are targeted to this organelle in autophagy. Enzymes targeted to these organelles have a mannose-6-phosphate tag. For 10 points, name these acidic organelles that serve as the cell's recycling center.

ANSWER: lysosomes

<Settle, Biology>

16. The disappearance of this concept titles a debate between Peter Thiel and David Graeber hosted by The Baffler. A Franco "Bifo" Berardi phrase about this concept is examined using the show *Sapphire & Steel* in the opening to Mark Fisher's *Ghosts of My Life*. "Siren servers" owned by Google and Facebook are critiqued in a book by Jaron Lanier whose title asks *Who Owns [this concept]*? "Overchoice" is discussed in a 1970 book titled for this concept by (*) Alvin Toffler that popularized the phrase "information overload." Ray Kurzweil and other transhumanists consider this time period to be marked by a "singularity." The *Black Panther* franchise and Octavia Butler's fiction belong to a movement whose name prefixes this relative period with "Afro." For 10 points, the impact of rapid technological growth is considered when studying what relative time period?

ANSWER: the future [accept word forms such as futurist; accept Afrofuturism; accept future studies; accept "Where Did The Future Go?"; accept Future Shock; accept *Who Owns the Future?*]

<A. Keyal, Social Science>

17. Four novels in this genre, including *Randiana* and *Rosa Fielding*, are examined in a chapter of Steven Marcus's book *The Other Victorians*. A memoir in this genre, often thought to be by Henry Spencer Ashbee, is attributed to the pseudonymous "Walter" and is titled *My Secret Life*. Maud Lilly's uncle conscripts her to help with a bibliography of this genre in Sarah Waters's novel *Fingersmith*. The books *Little Birds* and (*) *Delta of Venus* collect fiction in this genre by Henry Miller's editor and lover, Anaïs Nin ("ah-na-EESE neen"). John Cleland's *Fanny Hill* is usually considered the first novel in this genre, which also includes Leopold von Sacher-Masoch's ("ZAH-kur MAH-zock's") novel *Venus in Furs*. Accusations that *Lady Chatterley's Lover* belongs to this genre contributed to its 1960 trial for obscenity. For 10 points, name this genre of highly sexualized literature. ANSWER: **erotic** literature [or **erotica**; accept **porn**ographic literature; prompt on **obscene** or **obscenity** until read; prompt on **romance** or **romantic**]
<Morrison, Misc. Literature>

18. The concentration of this element in the cytosol is increased following phosphorylation of Zip7, which is an ortholog of the protein Catsup. An atom of this element is found in the core of APOBEC family proteins that edit RNA by catalyzing C-to-U deaminations. This element is found in the active sites of ADAMs and other MMPs that break down extracellular matrix proteins. In a common structural motif, an alpha-helix and two antiparallel beta sheets are stabilized by the tetrahedral configuration of this element bound to two (*) cysteines and two histidines. This metal is contained in the active site of most carbonic anhydrases. Transcription factors and other DNA-binding proteins often contain this element in "finger" domains. After iron, the second most abundant trace element in humans is, for 10 points, what metal used to treat colds? ANSWER: **zinc** [or **Zn**]
<A. Keyal, Chemistry>

19. At this ballet's premiere, Enrico Cecchetti ("check-KET-ee") originated a role in which a male dancer performs a diagonal sequence of 24 flying leaps called *brisés volés* ("bree-ZAY vo-LAY"). In a sequence from this ballet popularized by Margot Fonteyn ("MAR-go fon-TANE"), the central dancer performs a set of challenging balances that require standing on one leg *en pointe* ("on point") as a series of men take her hand. This ballet's third act depicts a wedding that contains the Bluebird *pas de deux* ("pah duh doo"). In the highly demanding centerpiece of this ballet, four (*) suitors present the main character with flowers on her 16th birthday. This ballet uses E minor to represent the evil Carabosse and E major for the good Lilac Fairy. The "Rose Adagio" is performed by this ballet's title character, who is cursed after a spindle pricks her finger. For 10 points, name this Tchaikovsky ballet about Princess Aurora, who is awoken with a kiss. ANSWER: *The **Sleeping Beauty*** [or ***Spyashchaya Krasavitsa***]
<Golden, Other Arts>

20. During the Civil War, a politician from this family organized a volunteer brigade to defend the White House before he was made ambassador to Russia. That politician from this family killed the pro-slavery advocate Cyrus Turner in a knife fight and published the anti-slavery paper *True American*. After calling a politician from this family a "blackleg," John Randolph challenged him to a duel in 1826. This family owned the estates of White Hall and (*) Ashland, the latter of which was the home of Charlotte Dupuy before she sued for her freedom. A politician from this family supported the Maysville Road and protectionism as part of his "American System." That politician from this family was accused of engaging in a "corrupt bargain" to become John Quincy Adams's Secretary of State. For 10 points, name this family of Kentucky politicians Cassius and Henry. ANSWER: **Clay** [accept Henry **Clay** or Cassius **Clay**]
<Parameswaran, American History>

Bonuses

1. A preface to a Franz Liszt piece titled for one of these places reads, “Wagner once reminded me of the likeness between his Parsifal theme and my previously composed Excelsior!” For 10 points each:

[H] Name these places. Another composer omitted the fugue and toccata when orchestrating his six-movement piece titled for one of these places, perhaps for being too pianistic or associated with Germanic baroque genres.

ANSWER: **tombs** [or **tombstones**; or **tombeau**; or **tombeaux**; or **graves**; or **grabe**] (The first clue refers to Liszt’s “At the Grave of Richard Wagner.”)

[E] This composer wrote *Le Tombeau de Couperin* (“luh tom-BOH duh coop-RAN”) in honor of six friends who died in World War I. A snare drum ostinato appears throughout this composer’s *Boléro*.

ANSWER: Maurice **Ravel**

[M] Arthur Benjamin, a composer from this country, wrote a mostly atonal *Tombeau de Ravel* for clarinet and piano. Another composer from this country adapted folk songs into a piece for wind band with sections titled “The Brisk Young Sailor” and “Rufford Park Poachers.”

ANSWER: **Australia** [or Commonwealth of **Australia**] (The second composer is Percy Grainger, who composed *Lincolnshire Posy*.)

<Parameswaran, Classical Music>

2. This group is likely responsible for the increasing prevalence of a high rising terminal pattern in Standard American English speakers. For 10 points each:

[H] Name this group of people who also originated a shift from /ch/ to /sh/ in the Spanish spoken in Panama City that is studied by Henrietta Cedergren.

ANSWER: **teenage girls** [or **young women** or **adolescent women** or equivalents; prompt on partial answers such as **women** or **young people**] (The first sentence refers to uptalk.)

[M] Much criticism has been leveled at young American women for their use of this register to convey disinterest or to sound authoritative. This feature often occurs at the end of phrases and involves tightly-compressed vocal folds.

ANSWER: vocal **fry** [or **creakiness**; or **creaky** voice; or **pulse** register/phonation; or **croakiness**; or **laryngealization** or word forms; or glottal **fry**; or **glottal rattle**; or **glottal scrape**]

[E] Like teenage girls, linguistic innovations from this group’s “Vernacular” are often marginalized before being appropriated into Standard English. Phrases like “woke” and “throw shade” originate in this group’s English dialect.

ANSWER: **Black** Americans [or **African Americans**; accept **Black** Vernacular English; accept **African American** Vernacular English or **AAVE**]

<Karim, Social Science>

3. Urochordates (“yur-uh-KOR-dits”) abandon this ability by metamorphosing from pelagic (“puh-LAJ-ick”) larvae. For 10 points each:

[E] Identify this ability that is [emphasize] *not* possessed by sessile organisms. Jellyfish employ this ability by contracting and relaxing rings of muscle around their bells.

ANSWER: loco**motion** [or **mobility**; accept equivalents such as **movement** or **motion** or **motility**]

[H] Certain deuterostomes retained locomotion in urochordate lineages that underwent this process and remained pelagic as adults, thereby retaining larval features. Along with progenesis, this process contributes to pedomorphosis.

ANSWER: **neoteny** [prompt on **heterochrony**]

[M] Many members of this class of filter feeders no longer possess the ability to move. Several organisms within this class deposit concentric layers of aragonite within their mantles to produce nacreous objects.

ANSWER: **bivalves** [or **Bivalvia**] (The organisms are oysters.)

<Egol, Biology>

4. A woman with this first name is confined to an isolated family home after failing to poison her domineering husband Bernard in a novel by François Mauriac. For 10 points each:

[M] Give this first name held by the title woman of an Émile Zola novel, who poisons herself with her lover Laurent over the guilt of their “putrid” murder of her husband Camille.

ANSWER: **Thérèse** (“tay-REZ”) [accept *Thérèse Desqueyroux* or *Thérèse Raquin*]

[E] Despite his intense Catholicism, Mauriac encouraged an author of this religion to write the 1960 book *Night*. Zola defended a man of this religion in his open letter *J’Accuse...!*

ANSWER: **Judaism** [or **Jewish**] (Those two people are Elie Wiesel and Alfred Dreyfus.)

[H] Mauriac’s Nobel lecture imagines a “world of a novelist without hope... into which we are led by” this author. This self-proclaimed “Zola of the Occult” wrote a novel about a civil servant who becomes a journalist and falls in with a group of artists.

ANSWER: August **Strindberg** [or Johan August **Strindberg**] (The novel is *The Red Room*.)

<R. Keyal, Long Fiction>

5. The Paloma and Tividi Trios popularized a version of mariachi music in this country whose name was a portmanteau of it and Mexico. For 10 points each:

[H] Name this European country whose citizens also idolized Emilio Fernández’s film *Un Día de Vida*. In the 1980s, “turbo-folk” music became popular in this country, exemplified by singers such as Ceca (“tsay-tsah”).

ANSWER: **Yugoslavia** [or Socialist Federal Republic of **Yugoslavia**; or **SFRY**; accept **Serbia** (since Ceca is Serbian); prompt on **Yu-Mex**]

[E] The translator Irina Nistor helped bring Western movies to this country for the first time. The documentary *Chuck Norris vs. Communism* follows the crackdown on movies in this country by Nicolae Ceaușescu (“chow-SHESS-koo”).

ANSWER: **Romania**

[M] This organization, the brainchild of George Kennan and Frank Wisner, helped introduce Western music to the Warsaw Pact. During Operation Prospero, this organization launched red balloons with leaflets attached across Eastern Europe.

ANSWER: **Radio Free Europe** [or **Radio Liberty**; or **RFE**; or **RL**]

<Parameswaran, European History>

6. Answer the following about appearances of Sarah Baartman, a South African woman derisively called the “Hottentot Venus,” in contemporary poetry, for 10 points each.

[E] Elizabeth Alexander, who wrote the 1990 collection *The Venus Hottentot*, read “Praise Song for the Day” at one of these events in 2009. At this event’s 2021 iteration, Amanda Gorman read her poem “The Hill We Climb.”

ANSWER: US presidential **inaugurations**

[H] The poem “Hottentot Venus” appears in this poet’s collection *Translating Mo’um*. This author of the collection *Dance Dance Revolution* included an essay on the poet Theresa Hak Kyung Cha in her book *Minor Feelings*.

ANSWER: Cathy Park **Hong**

[M] A poet with this surname imagined Baartman urging “Mother America, / unleash your sons” in the collection *There Are More Beautiful Things Than Beyoncé*. A poet with this surname wrote “Men seldom make passes / At girls who wear glasses” in “News Item.”

ANSWER: **Parker** [accept Morgan **Parker** or Dorothy **Parker**]

<R. Keyal, Poetry>

7. In one Chinese story, a peasant boy finds one of these objects under a patch of grass during a drought and, after swallowing it, turns into a dragon and brings rain. For 10 points each:

[H] Name these objects, flaming examples of which are chased across the sky by dragons in common Chinese artistic motifs. In another story, the Marquis of Sui (“sway”) receives one of these objects from a grateful snake.

ANSWER: **pearls** [prompt on **jewels** or **gemstones**]

[M] A dragon and one of these creatures create a pearl and turn into mountains after the pearl falls from heaven to become a lake. These creatures represent the Empress when paired with dragons representing the Emperor.

ANSWER: **phoenix** [or **fènghuáng**; prompt on **bird**; reject “Vermillion Bird”]

[E] In a Fujianese legend, a bush for producing the jasmine variant of this substance grew from a water droplet that fell from a dragon’s pearl. This substance was discovered by Shennong when a leaf fell into his hot water.

ANSWER: **tea** [or **chá**]

<Yang, Mythology>

8. Along with his wife Bilquis (“bil-KEES”), this man founded the *jhoola* project to take in abandoned children. For 10 points each:

[H] Name this Pakistani humanitarian whose namesake foundation runs the largest volunteer ambulance network in the world, as well as hospitals and orphanages.

ANSWER: Abdul Sattar **Edhi** (“eed-hee”) [accept **Edhi** Foundation]

[E] Like many Indian Muslims, Edhi migrated to Pakistan during this 1947 event that resulted in millions of deaths after the British withdrawal.

ANSWER: **Partition** of India

[M] Edhi expanded his operations after a 1957 epidemic of this disease hit Karachi. A 2009 pandemic caused by this disease originated in Mexico, but was largely contained.

ANSWER: **influenza** [accept Asian **flu** or swine **flu**; accept **H1N1** or **H2N2**]

<Raje, World History>

9. Foot-of-the-wave analysis estimates kinetic information of electrochemical reactions using these compounds when the voltammogram deviates from an S-shaped response. For 10 points each:

[E] Name these compounds that lower a reaction’s activation energy.

ANSWER: **catalysts**

[H] Foot-of-the-wave analysis produces a plot similar to these plots. These plots display the log of current density versus the overpotential with respect to the equilibrium potential.

ANSWER: **Tafel** plots [accept **Tafel** equation]

[M] This quantity replaces current density on the *y*-axis in the catalytic Tafel plots produced by foot-of-the-wave analysis. For catalase, this quantity is on the order of 10-to-the-7th moles per second.

ANSWER: **turnover number** [or **turnover frequency** or **turnover rate** or **k_{cat}** or **catalytic rate constant**; prompt on **TON** or **TOF**]

<Settle, Chemistry>

10. The brutal and bloody surgery-performances of ORLAN evoke artists of this movement, such as Rudolf Schwarzkogler, who pretended to castrate himself by eviscerating a fish. For 10 points each:

[H] Name this movement that includes Hermann Nitsch, who stages elaborate, gory ritualistic performances as part of his Orgien (“OR-ghee-in”) Mysterien Theater. This 1960s performance art movement was based in Austria.

ANSWER: Viennese **Actionism** [or Vienna **Action** Group; or Wiener **Aktion**ismus; or Wiener **Aktions**gruppe]

[E] As Actionism arose in postfascist Austria, Allan Kaprow, Claes Oldenburg, Jim Dine, and others performed “happenings” in this city. Andy Warhol’s Factory was in this city.

ANSWER: **New York** City [or **NYC**]

[M] VALIE EXPORT, an Austrian performance artist, posed in crotchless Mustang jeans holding one of these objects. Marina Abramović’s (“ah-BRAH-moh-vich’s”) *Rhythm 0* ended after an audience member grabbed one of these objects, which Chris Burden’s friend used on him in a 1971 performance piece.

ANSWER: a **gun** [accept any specific type of **gun**] (The Burden piece is *Shoot*.)

<Settle, Other Arts>

11. In the midst of a dance in 1923, a teenager from this modern-day country saw a naked, suffering Christ who asked her, “How long will you keep putting Me off?” For 10 points each:

[H] Name this home country of the nun who recorded that vision in her *Diary: Divine Mercy in My Soul*. Scranton, Pennsylvania is the headquarters of a major religious organization for this country’s American diaspora.

ANSWER: **Poland** [or Republic of **Poland**; or Rzeczpospolita **Polska**; accept **Polish** National Catholic Church]

[E] By canonizing Saint Faustina, this pope legitimized the Divine Mercy devotion, which had initially been suppressed by the Church. This Polish pope beatified over 1,000 people.

ANSWER: Pope **John Paul II** [or **JP II**; or Karol Józef **Wojtyła** (“voy-tih-wah”); prompt on **John Paul**]

[M] An optional prayer for sinners in the Divine Mercy Chaplet invokes this object, to which Saint Faustina was very devoted. In art, this object is often depicted with a crown of thorns, a lance wound, and a flaming cross on top.

ANSWER: the Sacred **Heart** of Jesus

<Settle, Religion>

12. The Baire category theorem, which essentially says that a complete metric space cannot be too “small,” has some surprising consequences. For 10 points each:

[E] The theorem implies that “most” continuous functions have this property nowhere. A function f has this property at a point x if the expression f of “ x plus h ” minus f of x all over h has a limit as h converges to zero.

ANSWER: **differentiable** [or word forms like **differentiability**; accept answers indicating that the function has a **derivative**]

[M] Another consequence is that a complete metric space with no isolated points must have this property. The real numbers have this property since they cannot be put into bijection with any subset of the naturals.

ANSWER: **uncountable** [or word forms like **uncountability**; accept **not countable**; accept **uncountably** infinite; reject “infinite”]

[H] The Baire category theorem is used to prove the open mapping theorem, the closed graph theorem, and the uniform boundedness principle, which are three fundamental results in this branch of mathematics. This subject mainly studies Banach (“BAH-nahk”) spaces and their dual spaces.

ANSWER: **functional analysis** [prompt on **analysis**; reject “real analysis”]

<Morrison, Other Science>

13. George Patton threatened to level Phenix City, then known as “Sin City U.S.A.,” because so many troops stationed at this fort left to gamble in it. For 10 points each:

[H] Name this fort that was located right across the border from Phenix City in Columbus, Georgia. In 1984, this fort became the headquarters of the School of the Americas.

ANSWER: Fort **Benning**

[E] Phenix City’s title of “Sin City U.S.A.” was later taken by this city, whose “strip” of casinos was propped up by the gangster Bugsy Siegel.

ANSWER: Las **Vegas**

[M] The underground lottery *bolita* was first introduced in this state by workers in Ybor (“EE-bor”) City and was later controlled by the Trafficante crime family.

ANSWER: **Florida**

<Parameswaran, American History>

14. Martin Hill criss-crossed sticks of raupo fiber for his piece *Synergy*, which is located in one of these places. For 10 points each:

[M] Identify these places. For a different site-specific work in one of these places, Robert Smithson arranged over 6,000 tons of black basalt in the shape of a spiral.

ANSWER: **lakes** [accept **Lake** Wanaka or Great Salt **Lake**; prompt on bodies of water]

[H] Robert Smithson also wrote an essay documenting how installing these objects affected his surroundings in the Yucatán. *Phalli’s Field* was the first in a series of art installations of rooms covered with these objects.

ANSWER: **mirrors** (The essay is “Incidents of Mirror-Travel in the Yucatan.” The second series is Yayoi Kusama’s *Infinity Mirror Rooms*.)

[E] Inspired by the Adena and Hopewell mounds of her home state, this artist dabbled in land art with her *Wavefields* series. This sculptor designed the Vietnam Veterans Memorial.

ANSWER: Maya **Lin**

<Parameswaran, Painting and Sculpture>

15. The narrator goes home with La Lujanera (“loo-hah-NEH-rah”) shortly after the Sticker rejects the Yardmaster’s invitation to one of these events in the story “Man on Pink Corner.” For 10 points each:

[H] Identify these events. In another story, a librarian reading the *Arabian Nights* “steps out into the plains... without hope [or] fear” and pictures a “joyous fiesta” after some farm workers make him join one of these events.

ANSWER: **knife fights** [accept answers indicating a **duel** fought with **knives**; prompt on fight or duel by asking “using what sort of weapon?”] (The second story is “The South.”)

[M] Jorge Luis Borges’s story “Man on Pink Corner” was published in a journal named for this character, whose death is imagined in his story “The End.” This man becomes an outlaw after killing a black man in a knife fight in an epic poem by José Hernández.

ANSWER: **Martín** Fierro [or Martín **Fierro**]

[E] Borges rejected Leopoldo Lugones’s claim that *Martín Fierro* was the quintessential epic of these people. Argentine *criollismo* (“cree-oh-YEES-moh”) literature celebrated these cowboys who roamed the Pampas.

ANSWER: **gauchos**

<R. Keyal, Short Fiction>

16. In electrostatics, this operation applied to the electric field must be zero. For 10 points each:

[M] Name this operation that gives the magnetic field when applied to the vector potential.

ANSWER: **curl** [accept **del cross** the electric field; accept **del cross** the vector potential; accept the **cross product** of **del** with the electric field; accept the **cross product** of **del** with the vector potential; accept **nabla** in place of “del”]

[E] This law that relates the flux of the electric field through a surface to the enclosed charge is a fundamental equation in electrostatics. This law named for a German mathematician is one of Maxwell’s equations.

ANSWER: **Gauss**’s law

[H] Assuming azimuthal (“AZ-ih-MUTH-al”) symmetry, one of these special functions of the cosine of theta gives the theta-dependence of the electrostatic potential.

ANSWER: **Legendre polynomials** [reject “associated Legendre polynomials” or “polynomials”]

<Settle, Physics>

17. Réginald Garrigou-Lagrange’s approach to Thomistic metaphysics begins by deriving the impossibility of this situation immediately from the idea of being. For 10 points each:

[E] Name this situation, forbidden by one of the three “laws of thought.” In mathematics, one method of indirect proof seeks to prove a proposition by assuming its negation and then arriving at this situation.

ANSWER: **contradiction**

[H] In opposition to the law of non-contradiction, this position holds that a statement can be both true and not true. One advocate for this position, Graham Priest, sees support for it in non-Western thinkers like Laozi (“lao-tsuh”) and Nagarjuna.

ANSWER: **dialetheism** (“di-ah-LEE-thee-ism”)

[M] This thinker argued that the “fundamental law of thought” is the principle that the development of things is driven by “contradictions” within them in his essay *On Contradiction*. This thinker remarked, “political power grows out of the barrel of a gun.”

ANSWER: **Mao** Zedong [or Chairman **Mao**]

<French, Philosophy>

18. Jeffrey Rose argues that a civilization in this gulf was the true origin of humanity. For 10 points each:

[E] Name this gulf where the Elamites established a shipping hub on Kharg Island. The Tigris and Euphrates River empty into this gulf.

ANSWER: **Persian** Gulf [or Gulf of **Persia**; accept **Arabian** Gulf; accept Gulf of **Iran**]

[H] This civilization based in modern Bahrain is believed to have played an important role in the trade between Mesopotamia and the Indus River Valley. This culture is believed to have been the home of Utnapishtim from *The Epic of Gilgamesh*.

ANSWER: **Dilmun** [or **Telmun**]

[M] The people of Dilmun likely spoke this language, preserved in cuneiform inscriptions found in Bahrain. This oldest attested Semitic language was the lingua franca of the Ancient Near East before Aramaic.

ANSWER: **Akkadian**

<Parameswaran, Other History>

19. Some street vendors of this foodstuff in Turkey trick customers by repeatedly pretending to hand it over before unexpectedly yanking it back. For 10 points each:

[E] Name this dairy-based dessert. An Italian version of it made with a higher concentration of milk is called gelato.

ANSWER: **ice cream** [or **ice cream** cone]

[H] The Syrian ice cream booza and the Turkish ice cream dondurma both use this resin as a thickening agent. This resin, which is almost exclusively produced on the Greek island of Chios, is used in many Mediterranean sweets.

ANSWER: **mastic** [or **mastiha**; or **tears of Chios**; accept **mastic** gum]

[M] The ice cream company Ben & Jerry's ended sales in areas controlled by this country in 2021. This country's peanut-butter-flavored puffed snack Bamba is so popular that it is linked to this country's low incidence of peanut allergies.

ANSWER: **Israel** [or State of **Israel**; or Medinat **Yisrael**; or Dawlat '**Isra'il**]

<Lo, Geography>

20. Answer the following about the unique form of literary identity known as the "Russian soul," for 10 points each.

[E] Vissarion Belinsky coined the term "Russian soul" after reading this author's novel *Dead Souls*. Fyodor Dostoevsky quipped that "We all come out from" this author's story "The Overcoat."

ANSWER: Nikolai **Gogol** [or Nikolai Vasilievich **Gogol**]

[M] *The Russian Soul* titles a book of selections from Dostoevsky's 1400-page work in this genre that helped to popularize the term. A Turgenev novella framed as a work in this genre created the "superfluous man" archetype.

ANSWER: **diary** [or **dnevnik**; accept *A Writer's **Diary*** or *The **Diary** of a Superfluous Man*; accept **Dnevnik** *pisateli*; accept **Dnevnik** *lishnego cheloveka*]

[H] James Falen's translation of *Eugene Onegin* renders the word "khandra" as "Russian soul," contrasting it with this "English" condition. Pushkin compares Onegin to Childe Harold while describing this sense of melancholy, which sometimes titles the poem's first canto.

ANSWER: **spleen**

<R. Keyal, Misc. Literature>