

2021 WORKSHOP: How did I never notice that your username is Santa Claus and mine is reindeer?

Produced by Olivia Murton, Kevin Wang, Wonyoung Jang, Jordan Brownstein, Adam Fine, Will Holub-Moorman, Athena Kern, JinAh Kim, Zachary Knecht, Caroline Mao, Christopher Sims, and Will Grossman
Packet 13

Tossups

1. **The final manuscript of this collection, known as its “Chigi” (“KEE-jee”) form, is discussed in Ernest Wilkins’s book titled *The Making of* [this collection]. While at his country home in France, the speaker of this collection laments their “sixteenth year of sighs.” A woman in this collection appears along with Love, Chastity, Death, and Fame in the collection *Triumphs*. Sections titled (*) “In Life” and “In Death” divide this collection, which ends with a poem addressed to the Virgin Mary. This collection was popularized through translations by the Earl of Surrey and Thomas Wyatt. This collection begins, “You who hear the sound in scattered rhymes,” and is about a woman the author met on Good Friday. For 10 points, name this collection of 366 poems by Petrarch dedicated to Laura (“LAO-rah”).**

ANSWER: Il Canzoniere [or Songbook]

<FW, European Literature>

2. **A piece in this genre opens with the low strings playing the recurring theme F-sharp, D, C-sharp, D, B, [pause] low F-sharp, which then modulates up by a third every two measures. Sir Donald Tovey referred to a section of a non-Beethoven piece in this genre as “The Great Bassoon Joke” because it includes dueling bassoons playing a “Fox Song”; that piece concludes with a C major *maestoso* finale section. (*) Felix Mendelssohn was inspired to write both his third symphony and a piece in this genre while on a trip to the Scottish Hebrides. The receipt of an honorary doctorate inspired a piece in this genre that quotes the graduation hymn “Gaudeamus igitur.” For 10 points, Johannes Brahms wrote an “Academic Festival” piece in what orchestral genre?**

ANSWER: overture [accept concert overture; accept *Hebrides Overture*; accept *Academic Festival Overture*; do not accept or prompt on “opera overture”]

<AT, Auditory Arts>

3. **Along with the “evil eye” and Bagdana, beings sharing their name with this figure were warded off by spells written onto incantation bowls. The blind serpent *Tanin’iver* is described as the bond between this figure and her husband according to the *Treatise on the Left Emanation*, which describes her being made from “burning fire” from the waist down. Asmodeus is sometimes said to be this figure’s husband, while other accounts list her as Samael’s consort. This figure claims dominion over newborn (*) babies for eight or twenty days depending on their gender. Three angels threatened to drown this figure in the Red Sea after she left her husband following an argument over what position to hold during sex. For 10 points, name this demoness and first wife of Adam.**

ANSWER: Lilith [accept liliths or lilû or lilitu or lilu]

<KT, Religion>

4. **The MacMillan lab’s work on a reaction of this type pioneered a class of chiral amine organocatalysts that allow enantioselectivity (“en-AN-tee-oh-selectivity”). Dewar and Zimmerman proposed a rule for the transition states for these reactions that depends on whether there are an odd or even number of overlaps between same-signed orbitals. One class of these reactions can be classified as (*) conrotatory or disrotatory based on the symmetry of their HOMO and the choice of thermal or photochemical conditions by the Woodward–Hoffman rules. A comma-separated pair of indices in square brackets indicate where the bond is formed in the sigmatropic variety of these reactions. Pi electrons are exchanged to form a cyclic intermediate in, for 10 points, what class of reactions that includes the Diels–Alder reaction?**

ANSWER: pericyclic reactions [accept Diels–Alder reaction until “transition” and prompt after; accept sigmatropic rearrangements until read; accept electrocyclic reactions; accept cheletropic reactions; prompt on concerted reactions; prompt on cyclizations, cycloadditions, or rearrangements by asking “what mechanism do they use?”]

<CSH, Chemistry>

5. **A man who promoted events of this type was inspired by the English boarding school reforms of Thomas Arnold. During a multi-day event of this type, Eric Liddell was handed a note quoting 1 Samuel in support of his decision to boycott a Sunday event. Luz Long gave technical advice to an American rival during an event of this type depicted in a pioneering documentary by (*) Leni Riefenstahl (“REE-fen-shtall”). A planned “People’s” event of this type in Barcelona was cancelled due to the start of the Spanish Civil War. The International Committee that organizes events of this type was founded by Pierre de Coubertin (“koo-bair-TAN”). For 10 points, name this type of event held in Berlin in 1936, where Jesse Owens won a gold medal in the men’s 100-meter sprint.**

ANSWER: Olympic Games [accept Olympics or Summer Olympics or Winter Olympics; prompt on sporting events or athletic events or competitions or aces]

<CSI, European History>

6. **This character’s nephew gives her a wooden pen carved like a bear before he’s temporarily lost at sea. During a New Year’s masquerade, this character dances with Nick Bottom while dressed as Mrs. Malaprop. This owner of the pet rat Scrabble dislikes writing romance stories for the “Weekly Volcano.” After being told to be less reserved, this character jokingly imitates the socialite (*) May Chester, causing her aunt to pick her sister to go to Europe instead. The futures of Rob, Ted, Emil, Franz, and the school created by this character at Plumfield Estate are discussed in the novel titled for this character’s *Boys*. Fritz Bhaer marries this character after she rejects Laurie’s proposal. For 10 points, name this tomboyish March sister of Meg, Beth, and Amy in Louisa May Alcott’s *Little Women*.**

ANSWER: Josephine March [or Josephine Bhaer; prompt on Bhaer until read; prompt on March until read]

<PS, American Literature>

7. **Congenital double eyelashes typically present alongside defects in this organ system. Efferent tissues in the right arm terminate separately from the rest of this system, whose primary connection to the vascular system is at the left subclavian vein. Metastatic marginal zone cells can target tissues in this system that are associated with mucous membranes. This system transports (*) chyle (“kyle”) rich in chylomicrons (“KYE-lo-microns”) away from the lacteals where it is formed. Fluids can accumulate in tissues when this system is damaged by Hodgkin or non-Hodgkin cancers. For 10 points, transporting fats is a secondary function of what organ system that carries immune cells between the thymus, spleen, and namesake nodes?**

ANSWER: lymphatic system [or lymphoid system; prompt on lymph, lymph nodes, lymphedema, efferent lymph vessels, mucosa-associated lymphoid tissue, or Hodgkin or non-Hodgkin lymphomas; prompt on chyle until read; prompt on immune system until “immune cells” is read by asking “what organ system is that part of?”]

<KT, Biology>

8. **A recently-translated Jacqueline de Romilly biography of this person likens his “two triumphant returns” to those of Charles de Gaulle. A source on this person repeats the claim that the “common folk” of one city “yearns for him, and hates him too, but wants him back.” That one of Plutarch’s *Parallel Lives* pairs this person with Coriolanus and describes how he hid part of his fleet from Mindarus during the capture of (*) Cyzicus. This person organized the 411 BC coup that installed the Four Hundred before being defeated by Lysander at the battle of Notium. This person was charged with desecrating the *hermai* shortly before leaving on a campaign opposed by Nicias. The Sicilian Expedition was led by, for 10 points, what Athenian statesman who defected several times during the Peloponnesian War?**

ANSWER: Alcibiades

<JVN, Ancient History>

9. Since 2015, the vast majority of seats in this city's legislative assembly have been held by the Aam Aadmi Party. In February 2020, dozens of people died in religiously-motivated violence in this city that flared up after sit-ins against the Citizenship Amendment Act in the neighborhood of (*) Shaheen Bagh. A slogan translating as "Let's go to [this city]" was spread by organizations such as Sanyukt Kisan Morcha to organize a highway blockade. That blockade protested three farm acts passed by the Lok Sabha and the Rajya Sabha, both of which are located in this city. In January 2021, farmers stormed the Red Fort in, for 10 points, what capital city of India?

ANSWER: Delhi [or Dillī; accept New Delhi, Naī Dillī, or the National Capital Territory of Delhi]

<WHM, CE/Geo/Other>

10. Research on this island inspired Roy Rappoport's distinction between "cognized models" and "operational models." The documentary *Dead Birds* depicts warfare on this island, whose gift economies are the subject of the film *Ongka's Big Moka* and Marilyn Strathern's *The Gender of the Gift*. Agriculture was independently developed at this island's Kuk swamp. The idiom "your own pigs you may not eat" refers to the incest taboo of this island's Arapesh people, who feature in a (*) Margaret Mead book about "Sex and Temperament." Over 1,000 living languages are spoken on this island, including the Sepik River family and the creole Tok Pisin. The Trobriand Islands lie off the coast of, for 10 points, what island split by Indonesia and a country whose name includes the word "Papua"?

ANSWER: New Guinea [or Papua until "Papua" is read]

<JB, Social Science>

11. A character in a play by this author sings, "West wind, wanton wind, wilful wind" as he prays for the wind direction to change. That play by this author closes with a woman wondering when "this beautiful earth" will "be ready to receive Thy saints" when her plan to return to life is rejected. A statue in a play by this author watches a man reject an offer due to his belief in the Life Force. This author created a woman who yells, (*) "Not bloody likely!" when asked if she wants to take a walk in the park. Jack Tanner marries Ann Whitefield in a play by this author whose third act is titled "Don Juan in Hell." In a play by this author, Professor Higgins bets on whether Eliza Doolittle can pass as a duchess. For 10 points, name this Irish playwright of *Saint Joan*, *Man and Superman*, and *Pygmalion*.

ANSWER: George Bernard Shaw

<EGR, British Literature>

12. While part of the music group called *Figures of Speech*, this director interviewed performers at the Good Life Cafe for the 2008 film *This Is the Life*. Flashbacks throughout another film by this director reveal that Derek, who is trying to be paroled early, has lied about his criminal activities to his wife Ruby. This director won the Directing Award for U.S. Dramatic Film at the 2012 Sundance Film Festival for her film (*) *Middle of Nowhere*, and opened another film with a shot of four girls walking down a flight of stairs before a bomb suddenly detonates. That film by this director was the only POC-directed film nominated at the 2014 Academy Awards. *Selma* was directed by, for 10 points, what African-American woman filmmaker who also created the documentary *13th*?

ANSWER: Ava (Marie) DuVernay

<FW, Other Arts>

13. A lemma named for this man can reconstruct 0-forms from 1-forms, and states that on contractible surfaces, every closed differential p -form is exact for p larger than zero. By proving that there were infinitely many solutions to the three-body problem, this man helped establish chaos theory. This man proved any trajectory formed by a first-order differential equation of polynomials was either periodic or a limit cycle, a

theorem generalized by Ivar (*) Bendixson. A reclusive Russian mathematician declined the Millennium Prize after using Ricci flow to solve this man's conjecture. For 10 points, every closed, simply connected manifold is homeomorphic to the three-sphere according to what French mathematician's namesake conjecture, which Grigori Perelman solved?

ANSWER: Jules Henri Poincaré ("pwann-kah-RAY")

<PS, Other Science>

14. **Achille Mbembe's *Critique of Black Reason* takes the term "All-World" from a thinker from this region who theorized the "poetics of relation." The "fables" about this region promoted by James Anthony Froude were rebutted in John Jacob Thomas's *Froudacity*. A lecture about "negotiating" this transnational region's "identities" was given by a theorist born in it who developed the encoding/decoding model at Birmingham University, Stuart Hall. A Marxist** (*) humanist from this transnational region studied the influence of Enlightenment thinkers on a rebel leader in his book *Black Jacobins*. This region was the birthplace of thinkers like C. L. R. James and Frantz Fanon ("fah-NAWN"). Eduoard Glissant theorized *antillanité* ("ON-tee-yah-nee-TAY") as the identity of, for 10 points, what region that includes Martinique and Trinidad?

ANSWER: the Caribbean [or West Indies; accept the Greater or Lesser Antilles until "antillanité" is read; prompt on Martinique, Trinidad and Tobago, Jamaica, Hispaniola, or Haiti by asking "can you be less specific?"; prompt on North America, Middle America, or the Indies; prompt on the Black Atlantic]

<JB, Social Science>

15. **The Song emperor Shenzong ("shun-dzong") invited thousands of these people to settle north of Beijing as a defense against the Liao. Some of these people in the Semu caste later rebelled against Yuan rule in the Ispah rebellion. A building called Huáishèng ("h'why-shung") in Guangzhou ("gwong-joe") was constructed because of a longstanding presence of these people. The Zhèngdé ("jung-duh") Emperor was rumored in some non-Chinese sources to have been one of these people due to the makeup of his court and harem. The Hongwu Emperor wrote the** (*) Hundred-Word Eulogy in praise of this religious group. One member of this religious group commanded the Ming treasure voyages while exploring the Indian Ocean. For 10 points, Zheng He ("jung huh") belonged to what religious group, many of whom in China belong to the Huí ("hway") or Uighur ("WEE-gur") ethnicities?

ANSWER: Chinese Muslims [or Muslim; anti-prompt (ask "can you be less specific?") on Hui people or Huízú or Dungan]

<MM, World History>

16. **Over 10,000 cans of date syrup were used to recreate one of this empire's sculptures for *The Invisible Enemy Should Not Exist* by Michael Rakowitz. This empire's artists often depicted winged "genies" tending to sacred trees while holding a bucket and a pine cone. Relief sculptures on gypsum slabs from this empire include a series depicting a lion hunt that is housed at the British Museum. In this empire, palace** (*) gates were often flanked by massive sculptures of lions with bearded human faces, known as *lamassu*. In 2015, ISIS destroyed art in the ruins of this empire's city of Nimrud. A mythical king of this empire is depicted lying on a red bed in a Eugène Delacroix painting. For 10 points, *The Death of Sardanapalus* depicts a figure based on what empire's real king Ashurbanipal?

ANSWER: Assyrian Empire [accept Neo-Assyrian Empire or Old Assyrian Empire]

<JB, Visual Arts>

17. **In a novel by this author, an alcoholic woman gives a detective a photo and a matchbook to help find her husband. A man in a novel by this author refuses to abandon his water collection project when a woman is taken to the hospital for her extrauterine pregnancy. The Broom Brigade attacks an abandoned quarry with an enormous toilet in a novel by this author. A seller of circular** (*) "clockbugs" that always face the sun and a man who builds a nuclear shelter named Mole feature in a novel by this author. In a novel by this author of *The*

Ruined Map, the villagers trick the entomologist Niki Junpei into living in the sand with the title character. For 10 points, name this Japanese author of *The Ark Sakura* and *The Woman in the Dunes*.

ANSWER: Kōbō Abe [or Kimifusa Abe]

<VB, World Literature>

18. *Arche-fossils* offer a way to “grasp” this concept according to Quentin Meillassoux (“may-yah-SOO”), who opposes the “unthinkability” of this concept posited by “strong correlationism.” Rae Langton titled a book defending this concept after the “humility” of its theorizer. The contradictions of the first two “antinomies” are used to argue that this concept must be non-spatiotemporal. Arthur Schopenhauer often identified this concept of an earlier thinker with the (*) Will. The doctrine of transcendental idealism distinguishes “mere representations” from this concept, which is often equated with the *noumena* that exists beyond the objects of our senses, or *phenomena*. For 10 points, give this three-word term for an unknowable, real object in the philosophy of Immanuel Kant.

ANSWER: the thing-in-itself [or Ding an sich; or things in themselves; accept the in-itself; prompt on noumena or noumenon until “noumena” is read; prompt on things; prompt on reality or synonyms; prompt on transcendental idealism until “transcendental” is read]

<JB, Philosophy>

19. This activist hosted a lecture tour by Peter Kropotkin that contributed to this activist’s thesis that natural selection creates an inevitable drive to world peace. This activist’s book *A New Conscience and an Ancient Evil* argued that raising wages and increasing the time girls spent in school could curb human trafficking. This activist advocated for recreation as a way of addressing juvenile delinquency in her book (*) *The Spirit of Youth and the City Streets*. This first American woman to win the Nobel Peace Prize applied concepts from Toynbee Hall to her most notable project. For 10 points, name this strong proponent of the settlement house movement, who is notable for founding Hull House in Chicago.

ANSWER: Jane Addams

<IG, American History>

20. For extended calculations, “leakage” of this quantity causes LSC-IVR methods to be less accurate than PIMD for quantum dynamics simulations. A factor equal to an exponential difference in this quantity multiplies a symmetry factor, a ratio of molecular masses, and a correction for vibrational excitation in the formula for the kinetic isotope effect. The variational method relies on the fact that the expectation value of a trial (*) Hamiltonian must be greater than this quantity. This quantity equals one-half $\hbar\omega$ for a harmonic oscillator, making the n th energy level proportional to “ n plus one-half” rather than n . For 10 points, name this type of energy that systems have even at absolute zero, due to quantum fluctuations of particles.

ANSWER: zero-point energy [or ZPE; accept ground state energy; prompt on energy until read]

<AF, Physics>

Bonuses

1. The plane of Foucault's pendulum precesses at a speed proportional to the sine of this quantity. For 10 points each:

[10m] Name this quantity often symbolized by theta. Higher centrifugal forces experienced at small values of this quantity cause a characteristic "bulge" of planets.

ANSWER: Earth's **latitude**

[10e] This fictitious force depends on both the magnitude and sign of the latitude. This force causes rightward deflection of objects in both the Northern and Southern hemispheres.

ANSWER: **Coriolis** force [or **Coriolis** effect]

[10h] As an undergraduate, this scientist invented a device to measure latitude or the Earth's rotation speed by rotating a ring 180 degrees and measuring the velocity of oil particles inside it. Field theoretic effects become significant below a length scale named for this scientist.

ANSWER: Arthur Holly **Compton** [accept **Compton** generator or **Compton** tube; accept reduced **Compton** wavelength]

<AF, Physics>

2. Answer the following about the history of disposable products in the United States, for 10 points each.

[10h] This invention of William Painter was initially applied to another product with a foot-powered apparatus. This innovative disposable product allowed stores to stock certain items upright instead of on their sides.

ANSWER: bottle **cap** [or crown **cap**, or **crown cork**, or **crown seal**; prompt on **cork**]

[10e] Alfred P. Sloan introduced the "planned" form of this product design concept while he was CEO of General Motors. This concept deliberately makes long-lasting products less functional over time, rendering them disposable.

ANSWER: **obsolescence** [or word forms like **obsolete**; or planned **obsolescence**, or built-in **obsolescence**, or premature **obsolescence**]

[10m] This material was initially created as a disposable alternative to ivory billiard balls, but was phased out due to its tendency to explode. This material is better known as the base of the film in the initial Kodak camera.

ANSWER: **celluloid**

<ZK, American History>

3. The speaker claims that they would be moved by "the dear sound of [this person's] footstep / and light glancing in [this person's] eyes" in the poem "To an army wife in Sardis." For 10 points each:

[10h] Name this person who titles a poem that describes "the heart in my chest on wings" and "tongue breaks and thin / fire racing under skin."

ANSWER: **Anactoria** [accept "Ode to **Anactoria**"; prompt on, but DO NOT REVEAL, **Sappho 31** by asking "What is the alternate title of the poem?"]

[10e] The line "He seems to me equal to gods" opens this poet's "Ode to Anactoria," which is her 31st fragment. This ancient Greek "tenth Muse" also wrote "Hymn to Aphrodite."

ANSWER: **Sappho**

[10m] Sappho's line "He seems to me equal to gods" was adapted into a poem about this woman, which is written in sapphic meter. The speaker of a poem asks this woman to give them "a thousand kisses, then another hundred."

ANSWER: **Lesbia** [accept **Clodia**]

<AD, European Literature>

4. Hans von Bülow's ("BYOO-loh's") little-known song *Tanto gentile e tanto onesta* ("TAHN-toh jen-TEE-lay ay TAHN-toh oh-NESS-ta"), which was transcribed by Franz Liszt, sets a text by this author to music. For 10 points each:

[10e] Name this author whose *Inferno* inspired an eponymous piano sonata and choral symphony by Liszt.

ANSWER: **Dante Alighieri** [accept either underlined name]

[10m] Among the other literary inspirations for Liszt's work was this character, who names a set of three virtuosic pieces beginning with "The Dance in the Village Inn" that are sometimes paired with his "Bagatelle ("bag-uh-TELL") without Tonality."

ANSWER: **Mephisto** [accept **Mephistopheles**; accept **Mephisto Waltzes**]

[10h] Liszt wrote two piano pieces with this name based on the lives of St. Francis of Assisi and St. Francis of Paola. A violin showpiece by Henryk Wieniawski ("v'yen-YAHF-skee") also has this French-language title.

ANSWER: **Légende** [accept **Deux légende**s]

<CSI, Auditory Arts>

5. Mohammad Ayoob titled a book for the "Security Predicament" faced by states in this place. For 10 points each:

[10e] Give this outdated two-word term for developing countries, which was first used during the Cold War to denote poor nations aligned with neither the U.S.S.R. nor the United States.

ANSWER: **third world**

[10m] Ayoob developed a "subaltern" variety of this theory of international relations. Liberalism rejects the emphasis placed on power politics by this school of thought, whose "neo-" form was developed by Kenneth Waltz.

ANSWER: **realism** [accept subaltern **realism**, **neorealism**, or structural **realism**]

[10h] Ayoob called for "weak" postcolonial states to pursue the "ideal" of this system, in which states have "effectiveness and legitimacy." The title of Susan Strange's magnum opus puns on this term for the international system of state sovereignty.

ANSWER: **Westphalian** system [or **Westphalian** sovereignty; accept **Westfailure**]

<ABD, Social Science>

6. In June 2020, the NIH announced that it was investigating nearly 200 scientists' ties to this Chinese government initiative. For 10 points each:

[10h] Name this alliteratively-named program. The CPC introduced this program in 2010 to recruit successful Chinese researchers living abroad, as well as famous non-Chinese scientists, to positions at Chinese universities.

ANSWER: **Thousand Talents** Program [or **Thousand Talents** Plan or **Qiān rén jìhuà**]

[10m] Charles Lieber, a chemistry professor at this university, was arrested during a crackdown on alleged espionage associated with Thousand Talents. Stephen Jay Gould and E. O. Wilson had a long feud during their careers at this university.

ANSWER: **Harvard** University

[10e] Lieber was accused of participating in the Thousand Talents program via a university based in this Chinese city. This city was the first identified location of COVID-19.

ANSWER: **Wuhan**

<KJ, CE/Geo/Other>

7. A movement founded by Periyar that advocated for Dravidian independence wore these objects because of a ban on a certain type of flag. For 10 points each:

[10h] Name these objects that were also worn by a group of World War I soldiers who would swim across rivers clenching daggers between their teeth, inspiring their use by the later MVSN.

ANSWER: **blackshirts** [prompt on **shirts**]

[10e] Ironically, a 2018 "blackshirt" rally based on Periyar's teachings opposed this ideology in Tamil Nadu, even though the original Italian blackshirts were deeply committed to this ideology under their leader Benito Mussolini.

ANSWER: **fascism** [prompt on **totalitarianism** or **authoritarianism**]

[10m] *The Blackshirt* also served as the newspaper for the British Union of Fascists, which was led by this politician who organized an antisemitic march that ended in the violent Battle of Cable Street.

ANSWER: Oswald **Mosley** [or Sir Oswald Ernald **Mosley**, 6th Baronet]

<CSI, Other History>

8. Extended exposure to this phenomenon can gradually increase the density of corticosteroid receptors, directly impairing memory retrieval. For 10 points each:

[10e] Name this biological response to things like final exams and writing quizbowl questions on a deadline.

ANSWER: **stress** [accept acute or chronic **stress**]

[10h] In rats, stress-related activation of glucocorticoid receptors can halt this process, which begins with either a single tetanus or multiple weaker stimuli. Subunits of the dodecameric CaMKII (“cam-K-two”) are activated during the early stages of this process, which can then phosphorylate other subunits or be exchanged with other CamKII complexes.

ANSWER: **long-term potentiation** [or **LTP**]

[10m] Long-term potentiation is prototypically studied in the CA1 region of this brain structure, which is responsible for the formation of long-term memories. Damage to this structure’s dentate gyrus can cause amnesia.

ANSWER: **hippocampus**

<EGU, Biology>

9. A thinker with this surname examined the “collective trauma” caused by “loss of community” in a study of the Buffalo Creek Flood, *Everything in its Path*. For 10 points each:

[10m] Give this last name of Kai, a sociologist of disaster. His father of this surname theorized eight stages defined by conflicts like “trust vs. mistrust” and “identity vs. confusion.”

ANSWER: **Erikson** [accept Kai **Erikson** or Erik **Erikson**]

[10e] Michael Eric Dyson studied the “color of disaster” in a book about this event, whose “women” title a book by Elaine Enarson. Discussions of environmental racism often cite the response to this 2005 hurricane.

ANSWER: Hurricane **Katrina**

[10h] The organizational theorist Karl Weick’s analysis of “the collapse of sensemaking in organizations” was inspired by Norman Maclean’s account of the 1949 Mann Gulch disaster, in which 13 people with this job died.

ANSWER: **smokejumper**s [accept wildland **firefighters**, **firemen**, or **firejumpers**]

<JB, Social Science>

10. “Providence determined how I would say goodbye” to “the artist of my life” in one work in this genre titled *Just Kids*. For 10 points each:

[10h] Name this genre. Charlie and J.P.’s children navigate between life in Texas and Colorado in Mary Karr’s *The Liars’ Club*, which is credited with a resurgence in this genre.

ANSWER: **memoir** [accept **autobiography**]

[10m] In Patti Smith’s memoir *Just Kids*, she recalls an “unspoken routine” in which she would wait in the Hotel Chelsea lobby to hail cabs for this author, who set a novel in Tangier and Interzone.

ANSWER: William S. **Burroughs** [or William Seward **Burroughs II** or William **Lee**] (The novel is *Naked Lunch*.)

[10e] Karr claims the “Symbolist idea” that “being tortured is a virtue” originates from this poet. In *Just Kids*, Smith describes her “unrequited love for” this French poet of *Illuminations* and “The Drunken Boat.”

ANSWER: (Jean Nicolas) Arthur **Rimbaud**

<KP, American Literature>

11. This liquid, which was heavily used in Hermann Nitsch’s *Orgien Mysterien Theater*, is also visibly prominent on the album cover of Metallica’s “Load.” For 10 points each:

[10h] Name this liquid heavily employed in Nitsch’s performance art. In 2019, artist Jordan Eagles “drenched” the walls of the Andy Warhol Museum with this fluid, which Eagles also used in a 2015 “Mirror” sculpture.

ANSWER: **blood** [accept **Blood Mirror**]

[10m] Warhol himself utilized unusual fluids in his art, as evidenced by his use of this bodily fluid in his “Oxidation Paintings.” This liquid also titles a Prague sculpture of two men facing each other by David Černý.

ANSWER: **urine** [or equivalents such as **pee** or **piss**; accept **Čůrajičí postavy**]

[10e] Cans of this semi-liquid food are a recurring motif in Warhol's work. Autographed cans of this liquid sold at a price sixty times the original at the 1964 exhibit "The American Supermarket."

ANSWER: soup [accept Campbell's Soup or *Campbell's Soup Cans*; accept specific kinds like tomato soup]
<MS, Visual Arts>

12. Guud ("good") and gaar ("gar") are two forms of this legal system that apply to disputes between or within clans, respectively. For 10 points each:

[10h] Name this customary Somali legal system. This legal system's main principle is compensatory justice adjudicated by tribal elders through informal arbitrations.

ANSWER: xeer ("hair")

[10e] Xeer predates this Islamic legal system, which was introduced after refugees from the first hijrah settled in the country. This legal system is still practiced alongside xeer.

ANSWER: sharia

[10m] This Somali dictator attempted to abolish the disparate Somali legal systems and place the country under a single system of civil law. This man instigated the Ogaden War in an attempt to establish a "Greater Somalia."

ANSWER: Mohamed Siad Barre [or Maxamed Siyaad Barre]

<ZK, World History>

13. A painting in Vienna's Schönlaterngasse ("shern-LAH-tern-gah-suh") alley commemorates the 13th-century discovery of one of these creatures at the bottom of a well. For 10 points each:

[10h] Name these creatures, one of which terrorized the peasants of 16th-century Warsaw until it was removed with a rake. These wingless creatures could be displaced using springs of the rue plant.

ANSWER: basilisk [or basiliscus]

[10m] Though medieval accounts often ended with the basilisk gazing in a mirror and exploding, they could also be killed by being exposed to this stimulus. At the beginning of Ragnarok, this sound will echo from Hel to Valhalla.

ANSWER: the crow of a rooster [accept onomatopoeic renderings like cock-a-doodle-doo or gaggalagú; prompt on partial answer]

[10e] The remains of a basilisk could be ground into a powder and combined with red copper, blood, and vinegar to produce this precious metal. Transmuting base materials into this metal was the goal of many alchemists.

ANSWER: gold [or Au; accept aurum]

<KT, Mythology>

14. On diagrams where these two variables are the axes, Carnot cycles appear as squares. For 10 points each:

[10m] Name this pair of conjugate thermodynamic variables. The product of these two variables is subtracted from the internal energy to get Helmholtz free energy, and from enthalpy to get Gibbs free energy.

ANSWER: temperature AND entropy [prompt on T and S; prompt on T-S diagram; prompt on partial answers]

[10e] For a reversible reaction, temperature times the differential of entropy equals the differential of this quantity. The change in internal energy of a system equals this quantity, symbolized Q, minus the work done by the system.

ANSWER: heat

[10h] Heat conduction has been shown to not obey the principle of maximum entropy production, a foundational rule in this branch of thermodynamics. This branch of thermodynamics has produced relations such as the Crooks fluctuation theorem by considering the second law of thermodynamics to only be true when averaged over time.

ANSWER: non-equilibrium thermodynamics [or synonyms like out of equilibrium thermodynamics]

<AF, Chemistry>

15. In the Royal National Theatre London's recent adaptation of this play, British comedian Tamsin Grieg does a striptease while singing and dancing to Shakespeare's Sonnet 135. For 10 points each:

[10e] Name this play centering on the twins Viola and Sebastian. In that adaptation of this play, the jester Feste and the steward Malvolio are both played by women.

ANSWER: Twelfth Night

[10m] The Simon Godwin-directed National Theater adaptation of this other play features a revolving stage and an emerging submarine. In this play, Enobarbus claims, “Age cannot wither her, nor custom stale her infinite variety.”

ANSWER: Antony and Cleopatra

[10h] Simon Godwin’s production of this play adds electric rock to a song which declares that a woman “excels each mortal thing / Upon the dull earth dwelling.” In this play, the maid Lucetta delivers a love letter to her mistress.

ANSWER: The Two Gentlemen of Verona

<EGR, British Literature>

16. This woman’s namesake institutions include an arts center in East St. Louis and a dance school that was located near Times Square. For 10 points each:

[10h] Name this author and activist who performed in productions such as the ballet *Southland*, which portrayed a lynching. This dancer also choreographed *Barrelhouse* and *Woman with a Cigar*.

ANSWER: Katherine Dunham

[10m] Like her contemporary and fellow dancer Pearl Primus, Dunham engaged in this type of work in the Caribbean. Dunham initially visited Haiti and Jamaica in order to engage in this kind of work.

ANSWER: dance anthropology [accept ethnochoreography or ethnography]

[10e] Dunham directed the posthumous 1972 premiere of this man’s opera *Treemonisha*. This man’s other opera *A Guest of Honor* is lost, and he is best known for piano compositions such as the “Maple Leaf Rag.”

ANSWER: Scott Joplin

<AK, Other Arts>

17. A more practical alternative to this technique substitutes a finger instead, but is unable to detect a distinct characteristic of sylvite. For 10 points each:

[10m] Name this analytical technique that can be used to distinguish chrysocolla from other blue-green minerals in the field. You can technically use this technique to identify coal, but it’s much easier to just look at it.

ANSWER: licking a rock [or tasting a rock; accept wetting a finger and touching a rock]

[10e] The easiest mineral to identify by licking is this cubic mineral formed from evaporated sodium chloride.

ANSWER: rock salt [or halite]

[10h] Flavor is typically less important than whether the tongue sticks to the surface, as it does when licking this white mineral. The group of this 1-to-1 phyllosilicate mineral is contrasted with that of the 2-to-1 montmorillonite (“mont-mor-ee-yon-ite”).

ANSWER: kaolin (“KAY-uh-lin”) [or kaolinite]

<KW, Other Science>

18. Answer the following about Russian Far East military history in the 19th to early 20th centuries, for 10 points each.

[10h] During this war, the Russian ship *Aurora* was chased by enemy forces from Peru to Siberia. Russian forces successfully evacuated the besieged port of Petropavlovsk during this war by exploiting confusion regarding Sakhalin’s status as an island rather than a peninsula.

ANSWER: Crimean War [or Krymskaya Voyna or Guerre de Crimée]

[10m] Japan deployed its entire land army to win this largest land battle of the Russo-Japanese War. After Russia lost this battle near modern-day Shenyang, Alexei Kuropatkin resigned from his position as commander.

ANSWER: Battle of Mukden [accept Mukdenskoye Srazheniye, Hōten Kaisen, or Fèngtiān Huìzhàn; do not accept or prompt on “Mukden Incident,” which was a different event that occurred in the leadup to World War II]

[10e] In this territory, Russian colonists fought against the Tlingit at the Battle of Sitka. This territory was later sold to the United States in 1867.

ANSWER: Alaska [accept Russian America or Russkaya Amerika; or Alvaska, Alaasikaq, or Alaas’kaq]

<MM, European History>

Commented [1]: this bonus is dope, Dunham seems awesome! this hasn’t played like a medium part so far, though, since it requires either a good guess or equally deep knowledge of Dunham’s work as the hard part

19. At the beginning of this novel, Yumiko gives the protagonist a handkerchief embroidered with the title pattern during a traditional ceremony. For 10 points each:

[10m] Name this novel about the relationship between Kikuji and Fumiko, which develops after the death of Fumiko's mother, Mrs. Ota.

ANSWER: *Thousand Cranes* [or *Senbadzuru*]

[10e] *Thousand Cranes* is a novel by this Japanese author, who wrote about Honinbo Shūsai's retirement game in *The Master of Go*.

ANSWER: Yasunari **Kawabata** [accept names in either order]

[10h] In *Thousand Cranes*, Fumiko angrily tells Kikuji to destroy one of these items that she had gifted him. When he refuses, Fumiko shatters another of these items, which has a trace of her mother's lipstick.

ANSWER: **tea bowl** [accept anything mentioning a **bowl** used during **tea** ceremony; prompt on **bowl** by asking "what is it used for?"; do not accept or prompt on "teacup"]

<AT, World Literature>

20. Drawing on thinkers like W. V. O. Quine and Wilfrid Sellars, this book promotes "epistemological behaviorism" in opposition to traditional accounts of how sense data justifies knowledge. For 10 points each:

[10h] Name this 1979 book that advocates the dissolution of many traditional problems of metaphysics and epistemology, which it claims result from faulty metaphors like the "Eye of the Mind."

ANSWER: *Philosophy and the Mirror of Nature*

[10m] *Philosophy and the Mirror of Nature* is by this American philosopher. This thinker developed his concept of "ironism" in his book *Contingency, Irony, and Solidarity*.

ANSWER: Richard (McKay) **Rorty**

[10e] Rorty is often identified with a postmodern form of this school of thought called its "neo-" version. William James's book on this philosophy refers to it as "a new name for some old ways of thinking."

ANSWER: **pragmatism**

<HG, Philosophy>