

2020 WORKSHOP: We Oughtta pRopose aKronymS aHead Of Ptime

Produced by Jacob Reed, Alex Damisch, Adam S. Fine, Will Holub-Moorman, Olivia Lamberti, Olivia Murton, Jakob Myers, and Kevin Wang

Packet 9

Tossups

1. A line of this poem describes objects that “tell the tale/of how days of delusion/will be followed by renewal” in a bewilderingly somber translation. Several people in this poem are described as “neither man nor woman” and “neither brute nor human,” but as “Ghouls.” This poem, which begins by describing “sledges...in the icy air of night” praises the “gush of euphony” of a (*) wedding in its second of four parts. The title objects of this poem begin “leaping higher, higher, higher/with a desperate desire” during a fire. Silver, golden, brazen, and iron instruments keep “time, time, time” in a “sort of Runic rhyme” throughout this poem. The word tintinnabulation was coined in, for 10 points, what poem by Edgar Allan Poe?

ANSWER: “The Bells”

2. One city in this state hosts a “Days of ‘47” Parade each year to celebrate this state’s holiday of Pioneer Day. This state is home to an annual festival founded by Sterling van Wangenen that hosts events at the Mary Steiner Egyptian Theater. A transport building boom was prompted by an event that was promoted with badges depicting this state’s mayonnaise-ketchup “fry sauce.” That boom led to this state’s (*) FrontRunner light rail system, which connected its cities of Orem and Ogden. This state’s Valley of the Gods was the subject of a 2019 Polish film that drew on Navajo mythology. This state shares a natural area with its Southern neighbor in which John Ford shot Westerns including *Stagecoach*. For 10 points, name this state home to the Sundance Film Festival and where Salt Lake City hosted the 2002 Olympics.

ANSWER: Utah <CM>

3. Small perturbations in this quantity are performed to relate the coefficient of thermal expansion to conformation changes in protein-ligand complexes. Performing CVD at low values of this quantity extends the reaction-limited regime, thereby yielding a more uniform product. Hydrophobic interactions cause early elution for polar molecules in the reverse-phase approach to a technique in which the (*) mobile phase has a high value for this quantity. Tightly packed beds with extremely small diameters are used in a form of chromatography in which this quantity is very high, known as HPLC. The value of this quantity is extremely low in the ultra-high vacuum regime. For 10 points, name this quantity whose value at standard conditions is 100 kilopascals, also known as 1 bar.

ANSWER: pressure [accept partial pressure] <JS>

4. In an article centering on a concept developed by *this* thinker, Robert W. Cox argues that it is developed by international organizations who co-opt elite talent from peripheral countries. A different concept popularized by this thinker is criticized for assuming that popular identity must be constructed within a single political space in a book by Chantal Mouffe and Ernesto Laclau. This thinker argued that radicals in Western nations should work on creating alternate social institutions in civil society through a “war of (*) position,” rather than directly confronting the state in a “war of maneuver.” In a series of essays written in the early 1930s, this thinker described how subordinate groups internalize the ideology of the dominant capitalist class through the workings of cultural hegemony. For 10 points, name this Italian Marxist who authored the *Prison Notebooks*.

ANSWER: Antonio Gramsci [GRAHM-shee] <WG>

5. **An influential 1986 dissertation titled for this event by Julius Scott remained unpublished until 2018. One history of this event was initially written as a 1934 play starring Paul Robeson. This event allowed the introduction of the *lakou* system according to a study by Laurent Dubois. “The Common Wind” was subtitled for this event, which was brought to prominence in a 1938 book by the Trinidadian historian (*) C. L. R. James. This event was followed by a civil war between supporters of Alexandre Petion and Henri Christophe. The existence of a ceremony led by Dutty Boukman at Bois Caiman, at which this event may have been planned, is disputed. For 10 points, name this event in which slaves in the French colony of Saint-Domingue successfully won their independence.**

ANSWER: Haitian Revolution [accept Haitian War of Independence, Révolution haïtienne] <JM>

6. **Ida Rubinstein commissioned a ballet from this composer in which a child is kissed on the heel by the title Fairy. A late ballet by this composer consists of four scenes that each feature three French court dances, and was choreographed for twelve dancers by George Balanchine. A revival of one of this composer’s ballets featured costumes by his rumored lover (*) Coco Chanel. In a ballet by this composer of *Agon*, the dancers form “Mystic Circles of the Young Girls” and stomp on the ground during the “Adoration of the Earth.” That ballet by this composer ends with a virgin dancing herself to death. Vaslav Nijinsky and Sergei Diaghilev were early collaborators of—for 10 points—what composer of *Petrushka* and *The Rite of Spring*?**

ANSWER: Igor (Fyodorovich) Stravinsky <MJ>

7. **It’s not stroke, but this disease is a major cause of a condition with extremely high localizing value in which patients fail to point their eyes inward, internuclear oph-thal-mo-plegia. Glatiramer acetate used to treat this disease may fail in patients with a “rapidly worsening” variant that also does not respond to beta interferon treatment. The McDonald criteria for diagnosing this disease have replaced the observational method of (*) Charcot’s triad. Disseminated lesions in both time and space as well as recurring attacks are required to differentiate the relapsing-remitting form of this disease from optic neuritis and other conditions that target white matter. For 10 points, name this neurodegenerative condition that is characterized by autoimmune axon demyelination in the central nervous system.**

ANSWER: multiple sclerosis [or MS] <AR>

8. **Upon seeing this painting, Théophile Gautier [goh-TYAY] remarked that its artist “delighted in dirty subjects from which others revolt.” Along with its pendant, this painting was badly damaged in a 1938 truck crash. This painting’s sunburnt central figure may bear the stigmata. A row of men with black, cylindrical hats stand before a (*) cubic lantern on the ground, which is this painting’s only light source. This work’s companion piece *The Charge of the Mamelukes* depicts an uprising on the previous day. A kneeling man in white and yellow flings wide his arms before a firing squad in—for 10 points—what Francisco Goya painting that shows Napoleonic soldiers executing the defenders of Madrid?**

ANSWER: *The Third of May 1808: The Execution of the Defenders of Madrid* [or *The Executions on Principe Pio Hill* or *El Tres de Mayo de 1808*] <MJ>

9. *Description acceptable.* A text titled for this process had its ideas systematized as the Square of Opposition, and discusses statements about the outcome of a sea battle to illustrate the problem of future contingents. A text titled for this process comes before the *Prior Analytics* and after the *Categories* in the *Organon*. This process takes place via a (*) “fusion of horizons” according to the book *Truth and Method* by Hans-Georg Gadamer. This process proceeds from whole to part and back to whole, in what Martin Heidegger called a “circle.” Friedrich Schleiermacher first philosophized about this process to systematize the project of understanding the Bible. Hermeneutics is the study of—for 10 points—what process of decoding a text’s meaning?

ANSWER: **interpretation** [accept more specific answers like **interpreting a text**; accept *De Interpretatione* or *Peri Hermeneias*; accept **understanding** until “understanding”; accept **hermeneutics** or **hermeneutic** circle until “hermeneutics”; accept **exegesis**] (The leadin is from *De Interpretatione*.) <JR>

10. According to the *Suda*, this author wrote a miscellany called *The Meadow*. This author wrote about a man who repeatedly cursed his enemies by saying that they should have “a wife and children like mine” after he banished his daughter to Pandateria. This man declined a military tribuneship in Britain obtained for him by his friend Pliny the Elder. One of this man’s works refers to Jews being incited by a man named (*) “Chrestus” that has been interpreted as referring to Jesus Christ. The most famous work of Einhard is modeled after the work of this author. His most prominent work is the primary source for anecdotes like a plan to make the horse Incitatus consul. For 10 points, name this secretary to emperor Hadrian, who chronicled the lives of the first Roman emperors in *The Twelve Caesars*.

ANSWER: Gaius **Suetonius** Tranquillus <KRA>

11. One spurious addition to this book was supposedly found during the 1688 siege of Belgrade, and was included in a translation attributed to Oscar Wilde by the publisher Charles Carrington. A character in this book is eternally suspended in a jar and, when asked what she wants, answers “I would (*) die.” Later in this book, the story of a woman who offers her husband’s body as a replacement for a stolen corpse is told by the poet Eumolpus. That story is narrated shortly after a lavish dinner party that includes dishes shaped like zodiac constellations. Ascyrtos fights for the love of the sixteen-year-old Giton with Encolpius in this book. The “Feast of Trimalchio” features in—for 10 points—what book by Petronius?

ANSWER: **Satyricon** *liber* [accept **Satyrica**] <RM>

12. This text, which is almost entirely rhymed, advocates a government that “empties minds, fills bellies, weakens wills, and strengthens bones.” A 1934 version unusually translates this text’s second title word as “power,” rather than the usual “virtue.” This text notes that Heaven and Earth treat all creatures indifferently, like “straw dogs,” and exhorts the reader to “embrace the uncarved block.” This text notes that (*) “empty space...makes the bowl useful,” and it declares “being” itself to be the “mother of the ten thousand things.” This text’s second sentence states “The name that can be named is not the eternal Name.” The saying “a thousand-league journey begins with a single step” comes from—for 10 points—what text that advocates non-action, or *wú wéi*, and which is attributed to Lǎozǐ?

ANSWER: **Dàodéjīng** [accept **Tao Te Ching**; accept **Lǎozǐ** until read; accept *The Classic of the Way and Virtue* or *The Way and its Power*] <MB>

13. In this composer's last piano sonata, the second theme of the first movement begins in the minor flat submediant of F-sharp minor, while the slow movement is in the minor flat mediant of C-sharp minor. This composer included an F-sharp-minor "Andantino" in 3/8 time in his penultimate piano sonata. A mysterious low G-flat trill appears early in a B-flat-major piano sonata that is this composer's (*) twenty-first and final piano sonata. This composer of six *Moments Musicaux* wrote two sets of four Impromptus the year before he died at the age of 31. This composer of the C-major *Wanderer Fantasy* wrote an A-major chamber piece in 1819 that swaps out the second violin for a double bass. For 10 points, name this composer of the *Trout Quintet*.

ANSWER: Franz (Peter) **Schubert** <VD>

14. As a child, one knight with this first name was threatened with being launched from a trebuchet before a royal intervention saved him, according to a 19,000-line verse biography. A chronicler described that advisor to Henry II and Earl of Pembroke with this name as "the greatest knight who ever lived". The Royal Banner of Scotland was first flown in battle by a king with this name nicknamed "the (*) Lion". Stephen of Blois took power after a prince with this name drowned in the *White Ship* disaster. At Senlac Hill, one ruler with this name defeated housecarls led by a man who is depicted being shot through the eye with an arrow on the Bayeux tapestry, Harold Godwinson. For 10 points, give this name of the Norman victor at the Battle of Hastings, who was also known as "The Conqueror."

ANSWER: **William** [or **William** I; or **William** Marshal; or **William** II; or **William** the Lion; or **William** the Conqueror; or **William** the Bastard; or **William** Adelin; accept **Guillaume**, prompt on **Adelin**; prompt on **Rufus** until it is read] <SdL>

15. Note: two answers required. Trapping these two particles in separate wells can form long-lived, "spatially indirect" quasiparticles. The product of these two particles' densities does not depend on chemical potential, even though both of their densities individually do. For these two particles, the energy at a wavevector k is given by $E_{\text{naught}} + \hbar^2 k^2$ over twice their (*) effective mass; the sign of the effective mass determines which of these two particles an object is. Excitons are bound states of these two particles. Which of these two particles' densities is higher determines whether a semiconductor is n- or p- type, since these two particles are the main charge carriers in semiconductors. For 10 points, name these two particles, a negatively charged particle and the quasiparticle corresponding to its absence.

ANSWER: **electrons** AND electron **holes** [do NOT accept or prompt on partial answers] <AF>

16. In one novel, Bernard recalls a woman performing this action "between two long windows" at Elvedon. An essay notes the failure to "consume all impediments and become incandescent" when Lady Winchilsea performed this action. That essay claims that "the indifference of the world" to this action was in the woman's case "not indifference but hostility." It's not (*) painting, but Charles Tansley tells Lily Briscoe that women can't perform this action. An essay claims that women began to perform this action openly in the eighteenth century by following the example of Aphra Behn. For 10 points, Virginia Woolf wrote that "a woman must have money and a room of one's own" in order to perform what action?

ANSWER: **writing** [accept word forms; accept specific forms of writing, like **writing** fiction or **writing** poetry] (The novel in the first clue is *The Waves*.) <RZ>

17. One work by this author centers on a farewell dinner given by Piet ["Pete"] for his activist friend Steve. In one work by this author, a character shouts "Gods of Our Fathers! My Land! My Home! Time waits no

longer." during an abridged version of *Antigone*. In one play by this author that was originally named for the guard Hodoshe, the cellmates John and Winston are named for two actors who helped write this author's plays as part of the (*) Serpent Players. In another play by this author of *The Island*, three characters discuss concepts like "a world without collisions", and "men of magnitude" in a tearoom in Port Elizabeth. In that play, a kite symbolizes the irreparable rift between the title character and his servants, Sam and Willie. For 10 points, name this South African playwright of "*Master Harold*"...and the Boys.

ANSWER: Athol Fugard <BH>

18. In certain situations, these people can trigger an exit provision known as a "shotgun clause." A 1932 book by Adolf Berle and Gardiner Means advocated increasing the power of these people. *Shaffer v. Heitner*, in which the Supreme Court ruled that states do not necessarily have jurisdiction over these people, originated as a (*) "derivative lawsuit" brought by one of them. A 1970 essay by Milton Friedman argued that certain entities' social responsibilities are *only* to these people. The IRS commonly asks courts to "pierce the corporate veil" by treating a corporation's liabilities as the liabilities of these people, making it impossible for them to claim "limited liability." For 10 points, name these people who receive dividends as a result of their partial ownership of a company.

ANSWER: shareholders [or stockholders; prompt on investors or stakeholders] <WHM>

19. These phenomena cause especially concentrated air showers, allowing telescopes like MAGIC to indirectly observe them by measuring atmospheric Cherenkov radiation. These phenomena were used to map two lobes extending 25,000 light years from the center of the Milky Way called Fermi bubbles. Starquakes recurrently trigger these phenomena in a class of (*) magnetars called "soft [these phenomena] repeaters." A relativistic shock wave in interstellar gas causes an "afterglow" from these events, which consist of highly-directional jets that are the brightest known astronomical events. For 10 points, name this most energetic form of electromagnetic radiation, which some supernovae can release in namesake "bursts."

ANSWER: gamma rays [accept soft gamma repeaters; accept gamma-ray bursts; prompt on SGRs; prompt on GRBs; prompt on electromagnetic radiation, light, or photons] <GH>

20. This state's "eavesdropping act", which prohibited recording police officers during arrests, was blocked after a suit against State's Attorney Anita Alvarez. A town in this state, which has the highest population of Holocaust survivors outside Israel, saw a planned 1978 march by Neo-Nazi leader Frank Collin that was controversially defended in court by the ACLU. The ACLU also supported the plaintiff in a case in which Danny (*) Escobedo sued this state for not allowing him to speak with an attorney during interrogation. The execution of six anarchists including August Spies in this state inspired the creation of International Workers' Day after the Haymarket Affair. For 10 points, name this state where ACLU founder Roger Baldwin was a member of the IWW's Chicago chapter.

ANSWER: Illinois <JM>

2020 WORKSHOP

Packet 9

Bonuses

1. This leader's mysterious 1021 disappearance while taking a walk is used by some groups as evidence of his divinity. For 10 points each:

[10] Name this leader who, despite his destruction of Christian sites in Jerusalem in 1007 and killing of all of his realm's dogs, remained popular after he established a public library called the Dar al-'Alim in his capital.

ANSWER: **al-Hakim** bi-'Amr Allah

[10] After al-Hakim's death, he became an important figure in the Ismaili sect of this branch of Islam, which his Fatimid caliphate uniquely followed. This branch broadly believes that 'Ali should have been the first caliph.

ANSWER: **Shi'a** Islam [accept **Shi'ism** or **Shi'at 'Ali** or **Shi'ites**]

[10] al-Hakim's rule was troubled by ethnic disputes in the Fatimid army between Turks and these people, whose Kutama group was prominent under the Fatimids. Commanders like Tariq ibn Ziyad were part of this ethnic group.

ANSWER: **Berbers** [accept **Amazigh**] <JM>

2. For a generalized coordinate x , this operation on the quantity x times the derivative of the Hamiltonian with respect to x equals kT by the generalized equipartition theorem. For 10 points each:

[10] Name this type of operation which, when done over time and over phase space, are equivalent in an ergodic system. When performing this operation in thermodynamics, one normalizes by the partition function.

ANSWER: **average** [or **averaging**; accept time **average**; accept ensemble **average**; accept phase space **average**; accept **mean**; accept **expectation** value; accept **expected value**; accept **EV**]

[10] The equipartition theorem implies that twice the time average of one form of this quantity equals the negative of the virial. The first law of thermodynamics is a restatement of the conservation of this general quantity.

ANSWER: **energy** [accept kinetic **energy**; accept internal **energy**]

[10] This equation can be derived by evaluating the virial as an integral over the instantaneous force on a small portion of a boundary dA and applying the equipartition theorem.

ANSWER: **ideal gas** law [prompt on "**equation of state**" or "**EOS**" with "which one?"] <JS>

3. This character states that he prays "sometimes," then demonstrates what he says while praying, before another character says "Don't you think you would do just as well if you shut up?" For 10 points each:

[10] Name this character from an eighteenth-century novel who tells a long love story plagiarized directly from *Tristram Shandy*. His stories are sometimes interrupted by the Reader.

ANSWER: **Jacques** the Fatalist [or **Jacques** le Fataliste]

[10] *Jacques the Fatalist* is a posthumously-published novel by *this* author of the scandalous *The Indiscreet Jewels*. He argued that great actors cannot actually feel the emotions of their characters in *Paradox of the Actor*.

ANSWER: Denis **Diderot** [deed-ROH]

[10] Another posthumous work of Diderot, *Rameau's Nephew*, was first published in a translation by *this* German author of the two-part novel *Wilhelm Meister* [VIL-helm mye-stuh] and the two-part play *Faust*.

ANSWER: Johann Wolfgang von **Goethe** [GUR-tuh] <WG>

4. Many Shi'a Muslims recite the the *Du'a Nudba* on an Eid commemorating an event at *this* location. For 10 points each:

[10] Name this location where Muhammad supposedly said “Anyone who has me as his *mawla*, has Ali as his *mawla*.” Shi'ites also hold that a verse in Surah 5 about “perfecting” the religion was also revealed at this place.

ANSWER: Ghadīr **Khumm** [accept ‘Eid al-**Ghadīr**]

[10] Muhammad’s sermon at Ghadir Khumm took place on the way back from his Farewell Pilgrimage, which inspired many of the rituals Muslims perform on *this* pilgrimage to Mecca.

ANSWER: **Hajj**

[10] A different verse in Surah 5 has given rise to a hadith about Ali giving alms to a beggar while doing *this* specific action, which is called *rukū’*. A variety of this action done during prayer is known as *sujud*.

ANSWER: **bowing** [accept **prostration**; prompt on praying or Salat] <JR>

5. The formulator of this concept wrote that sexuality is on a “lesbian continuum” that is covered up by the patriarchy trying to define normal “feminine” behavior. For 10 points each:

[10] Name this concept that’s paired with “Lesbian Existence” in the title of an essay that describes how society enforces and romanticizes the idea that a normal relationship is between a man and a woman.

ANSWER: **compulsory heterosexuality** [or **comp het**]

[10] Compulsory heterosexuality was initially theorized by *this* lesbian feminist poet who wrote “Diving into the Wreck.”

ANSWER: Adrienne (Cecil) **Rich**

[10] Another nonfiction book by Rich subtitled for this status “as experience and institution” analyzes why women with *this* status are expected to do all of the child-rearing for a household.

ANSWER: **motherhood** [accept descriptions like being a **mother**] (The book is *Of Woman Born*.) <EA>

6. This composer’s opera *The Exterminating Angel* requires a high A that was the highest note ever sung onstage at the Met when it premiered in 2017. For 10 points each:

[10] Name this composer of the violin concerto *Concentric Paths* whose orchestral work *Asyla* is inspired by techno music. His other operas include *The Tempest*.

ANSWER: Thomas **Adès**

[10] Another recent Met premiere was *this* Philip Glass opera, whose libretto features arias in Akkadian, Hebrew, and Ancient Egyptian. Along with *Satyagraha* and *Einstein on the Beach*, it forms Glass’s *Portrait Trilogy*.

ANSWER: **Akhnaton**

[10] Like Trinculo in Adès’ *The Tempest*, Akhnaten is played by a countertenor, who uses *this* register to sing unusually high pitches. This breathy and “feminine”-sounding style is often equated with a man’s head voice.

ANSWER: **falsetto** <MJ>

7. This color describes the “wind” and “branches” in the midst of “the ship out on the sea” and “the horse on the mountain.” For 10 points each:

[10] Name this color. A woman has skin and hair of *this* color, but “eyes of cold silver,” in a poem in which “all things are watching her and she cannot see them.”

ANSWER: **green** [or **verde**]

[10] The aforementioned poem, “Romance Sonambulo,” is one of eighteen poems in this collection that its author hoped had captured a “hidden Andalusia.”

ANSWER: **Gypsy Ballads** [accept **Romancero Gitano**]

[10] *Gypsy Ballads* was written by this Spanish author who wrote about Leonardo Felix and the Bride and Groom in *Blood Wedding* as a part of his *Rural Trilogy*.

ANSWER: Federico García **Lorca** <AR>

8. In 1971, the Cook-Levin theorem showed this problem was the first in a new class. For 10 points each:

[10] Give this problem of whether variables can be assigned such that an expression evaluates to true. The central expression of this problem is typically written in conjunctive normal form with clauses of at most three terms.

ANSWER: 3-**SAT** [or **boolean satisfiability**; accept k-**SAT**, where k is any whole number]

[10] Cook and Levin both realized that all problems in this complexity class were equivalent to SAT, a concept later called “[this class]-complete”. This class may or may not be the same as P.

ANSWER: **NP** [or **non-deterministic polynomial** time; accept **NP-complete**; do not accept “P”, “NP-Hard”, or “polynomial”]

[10] Reducing 3-SAT to this graph problem can be done by linking variables to their converse, creating gadgets from each clause, and then drawing edges between the nodes shared in those two components. Reducing the clique problem to *this* one yields solutions of size n minus k from cliques of size k.

ANSWER: minimum **vertex cover** problem [or minimum **node cover** problem] <VF>

9. The Victoria and Albert Museum houses a fifteenth-century table covered entirely in this material, which has three drawers and whose top sports a dragon and a phoenix. For 10 points each:

[10] Name this red-and-black material that was often decoratively carved for luxury goods like boxes and dishes in late Imperial China.

ANSWER: carved **lacquer** [or *diāoqi* or *qīdiāo*]

[10] The so-called *guri* [*goo-ree*] style of lacquer carving was named for its similarities to decorations on *these* parts of a sword. This is the term for the often-decorated fitting at the top of a sword’s hilt.

ANSWER: sword **pommels**

[10] Another style of lacquer carving is called “brocade-ground” due to its similarity to artworks in *this* kind of material. Chinese scroll paintings were traditionally made on either paper or this kind of material.

ANSWER: **textiles** [accept any answer indicating **cloths** or **fabric** or **embroidery**; accept more specific answers like **silks**] <JR>

10. Answer the following about animal rights in modern philosophy. For 10 points each:

[10] This philosopher condemned “speciesism” and argued that animals’ capacity to suffer should give their interests equal consideration in his 1975 book *Animal Liberation*.

ANSWER: Peter **Singer**

[10] In a different work, Singer attacked this earlier philosopher’s “kingdom of ends” as being unjust to animals. This philosopher formulated the “categorical imperative” in his *Groundwork of the Metaphysics of Morals*.

ANSWER: Immanuel **Kant**

[10] This Harvard philosopher argued that humans are obligated to treat all sentient beings as “ends-in-themselves” in the 2018 book *Fellow Creatures: Our Obligations to the Other Animals*.

ANSWER: Christine M(arion) **Korsgaard** <VS>

11. One of these countries besieged the ports of Brindisi and Otranto as part of its alliance with the other, then left when it became clear that the other would not help. For 10 points each:

[10] The Unholy alliance was concluded between what two powers, one of which honored trade “capitulations” the conquered Mamluk sultanate had given to the other, which lent a fleet to to an attack on neighboring Savoy.

ANSWER: **France** AND the **Ottoman Empire** [accept **Turkey** or **Devlet-i-Aliye** for **Ottoman Empire**]

[10] The Unholy Alliance resulted from its parties’ mutual hatred of this family that ruled the Holy Roman Empire and Spain.

ANSWER: **Habsburg** [or **Hapsburg**, or **Habsburgo**]

[10] Following the Franco-Ottoman siege of Nice, France offered this city as a base to attack the Spanish and Italian coasts. This port lost its departmental capital status after offering shelter to a British fleet that had been expelled from Marseille in 1793.

ANSWER: **Toulon** <KRA>

12. During the 19th century, this country's "urban novels" satirized its rulers, Pedro I and Pedro II. For 10 points each:

[10] Name this country whose São Paulo-based Monteiro Lobato firm started printing the country's first books.

ANSWER: **Brazil** [accept **Brasil**, **First Brazilian Republic**, **Empire of Brazil**]

[10] Rio de Janeiro newspapers extensively covered people with this disease, who rose up in the 1904 Vaccine Revolt when "medical experts" knocked down people's doors and sprayed them with chemicals. Walter Reed led a US army task force on this disease.

ANSWER: **yellow fever**

[10] Newspapers also covered the poor treatment of servants working on these plantations. Places described by this term, which referred to any sort of coffee farm, was where most *coronelistos* lived in the "Coffee with Milk" period.

ANSWER: **fazenda** <ZF>

13. One character in this story is convinced to live at Isabel's house and attend school after he learns that Isabel owns a piano. For 10 points each:

[10] Name this story in which the title heroin-addicted character plays a song with Creole and his band in a Greenwich village jazz club.

ANSWER: "**Sonny's Blues**"

[10] "Sonny's Blues" was written by this author of *Giovanni's Room* and *The Fire Next Time*.

ANSWER: James **Baldwin**

[10] Baldwin republished "Sonny's Blues" in this 1965 collection. In this collection's title story, a white sheriff named Jesse recalls watching a Black man being castrated and burned alive.

ANSWER: **Going to Meet the Man** <CM>

14. In *The Conference of the Birds*, a group of thirty birds reaches the dwelling place of this creature but finds only a lake in which they see their reflections, as this creature's name means "thirty birds." For 10 points each:

[10] Name this legendary creature that, in another story, raised Prince Zal and gave him three of its feathers that could be burned to summon it.

ANSWER: **simurgh** [or **simorg**]

[10] The latter episode occurs in this text, in which the simurgh gives instructions on delivering the hero Rostam via magical cesarean section. This epic by Ferdowsi recounts a mythologized history of Iran up to the Arab conquest.

ANSWER: **Shahnameh** [accept *The Book of Kings*]

[10] The simurgh is considered an analogue to this avian creature from Greek mythology due to its long lifespan, which culminates in setting itself on fire.

ANSWER: **phoenix** <GH>

15. A T315I mutation in one of these proteins grants resistance to drugs like Gleevec. For 10 points each:

[10] Name this type of protein that is inhibited by imatinib. A non-receptor class of these proteins recruit and then activate STAT proteins as part of the cytokine signalling pathway.

ANSWER: **tyrosine kinase** [accept receptor **tyrosine kinase** or **RTKs**; prompt on protein **kinases** or Janus **kinases** or **JAKs**; prompt on proto-**oncogenes** with “What function do they have?”]

[10] Receptor tyrosine kinases lack this property since they must be triggered to function, but can gain it via mutations that delete regulatory subunits. BCR-ABL has this property due to the loss of a myristoylated cap region. A description is fine.

ANSWER: **constitutively active** [or **always on**; accept answers indicating it **can’t be turned off**; prompt on **active** or **functional**]

[10] The activity of BCR-ABL causes this disease due to runaway proliferation of myeloid cells. The discovery of v-*Src* tyrosine kinase showed that viruses could cause this disease, which is defined by uncontrolled cell growth.

ANSWER: **cancer** [accept specific cancers like chronic myelogenous **leukemia** or **sarcoma**; accept murine **leukemia** or chicken **sarcoma**] <AR>

16. A peasant in red plows a field in the extreme foreground of a painting by this artist. For 10 points:

[10] Name this sixteenth-century Flemish artist who showed the title figure’s legs flailing in the water next to a large ship in his *Landscape with the Fall of Icarus*. He also painted several scenes of peasant weddings.

ANSWER: Pieter **Bruegel the Elder** [prompt on **Bruegel**, do NOT accept or prompt on “Bruegel the Younger” or “Jan Bruegel”]

[10] This series by Bruegel depicts knights cutting nude civilians with a large butter knife and a grotesque winged monster eating a shoe. Another Flemish painting of this theme takes the shape of a large circle and lies flat.

ANSWER: *The **Seven Deadly Sins** and the Four Last Things* [or *The **Seven Vices***; or ***Zeven Hoofdzonden***]

[10] That circular depiction of the *Seven Deadly Sins* was made by *this* earlier Flemish painter, and is housed in the Prado alongside three of his triptychs.

ANSWER: Hieronymus **Bosch** [or **Jheronimus** van Aken] <AR>

17. In “Oh Who is That Young Sinner,” Oscar Wilde is taken to prison because of the color of this stuff. For 10 points each:

[10] Name this material. Dorian Gray is told to never marry someone with the “straw-colored” type of this stuff, because they are too “sentimental.”

ANSWER: **hair**

[10] This poet wrote “Oh Who is That Young Sinner.” This poet’s collection *A Shropshire Lad* includes “To an Athlete Dying Young.”

ANSWER: A. E. **Housman** [or Alfred Edward **Housman**]

[10] The preface to *The Picture of Dorian Gray* ends with this bolded five-word phrase. This statement follows the conclusion that “We can forgive a man for making a useful thing as long as he does not admire it.”

ANSWER: “**All art is quite useless**” [exact phrase required] <EF>

18. This thinker posited a dichotomy between two idealized jurists, one who can challenge many predominant schools of legal thought and one who respects historical legal meanings. For 10 points each:

[10] Name this American legal scholar who created Judge Hercules and Judge Hermes in *Law's Empire*.

ANSWER: Ronald **Dworkin**

[10] Dworkin distinguished between the “semantic” and “expectation” intentions of law in his writings on this legal body, rejecting the “textualism” advocated by its former member Antonin Scalia.

ANSWER: United States **Supreme Court** [or **SCOTUS**; accept other answers mentioning the **Supreme Court** of the **United States**]

[10] Dworkin was a pioneer of the legal form of this view, which holds that the correct application of law depends on normative and evaluative facts that justify the total set of legal practices.

ANSWER: **interpretivism** <WG>

19. A compound's value for this point determines where it rests on a substrate that is created by incorporating a gradient of immobilines into acrylamide. For 10 points each:

[10] Name this point that is “focused” in the first step of 2D PAGE before molecules are separated by mass.

ANSWER: **isoelectric** point [or **pI**; accept **isoelectric** pH or **pH(I)**; accept **isoelectric** focusing; prompt on **pH**]

[10] The isoelectric point of an amino acid can be found using this technique, which involves slowly adding a solution of known concentration until the pK_a value of each proton is reached and then calculating the average.

ANSWER: acid-base **titration**

[10] Electric fields drive solvent between the double layers formed on silanates to produce the characteristically flat profile of electro-osmotic flow in this technique. Agilent sells bulbous equipment that increases path length when this technique is coupled to UV/vis, and it can use LPA as a high-resolution and reusable sieving matrix.

ANSWER: **capillary electrophoresis** [or **capillary zone electrophoresis**; accept **capillary** gel **electrophoresis** or SDS-**CGE**; prompt on gel **electrophoresis**] <VD>

20. A league for this sport collapsed in 1929 a few months after Black Thursday. For 10 points each:

[10] Name this sport whose first US champion, the Brooklyn Field Club, won the Lamar Hunt Cup in 1914. The United States attended this sport's inaugural world cup in Uruguay in 1930.

ANSWER: **soccer** [or association **football**]

[10] Charles Schwab, a magnate in this Mid-Atlantic city, bankrolled its namesake team of steelworkers on a 4-year run winning the U.S Cup from 1915-1919. The first soccer field with stadium seating in the US, which is currently owned by Moravian College, was in this city that shares a metropolitan area with Allentown.

ANSWER: **Bethlehem**, Pennsylvania

[10] The first organized team to play soccer in the US had this name. A utopian community with this name was led by John Humphrey Noyes, who advocated for its “free love” doctrine.

ANSWER: **Oneida**, New York <ZF>

The 2020 WORKSHOP Team

Subject Editors

Adam Fine (Chemistry, Physics) <AF>
Will Holub-Moorman (Social Science, Other Academic) <WHM>
Olivia Lamberti (Literature)
Jakob Myers (History, Geography/Other) <JM>
Jacob Reed (Arts, Religion, Philosophy) <JR>
Kevin Wang (Biology, Other Science, Legends) <KW>

Other Set Production

Will Grossman, Olivia Murton, Alex Damisch

Writers

Ethan Ashbrook <EA>
Mitch Baron <MB>
Michael Borecki <MBo>
Gus Carvell <GC>
Vincent Du <VD>
Ganon Evans <GE>
Eve Fleisig <EF>
Kevin Fan <KF>
Vincent Fan <VF>
Zachary Foster <ZF>

William Grossman <WG>
Gerhardt Hinkle <GH>
Boyang Hou <BH>
Montagu James <MJ>
Abhinav Karthikeyan <AK>
Zachary Knecht <ZK>
Suttree de Lorge <SDL>
Eric Lu <EL>
Caroline Mao <CMA>
Juliet Mayer <JMA>
Connor Mayers <CM>
Robert Muñiz <RM>
Pedro Juan Orduz <PJO>
Kiran Rachamalla <KRA>
Rahul Rao-Pothuraju <RRP>
Alejja Rodriguez <AR>
Karsten Rynearson <KR>
Jonathen Settle <JS>
Varun Sikand <VS>
Christopher Sims <CS>
Evan Suttell <ES>
Rohan Vora <RV>
Luc Wetherbee <LW>
Kevin Yu <KY>
Justin Zhang <JZ>

Richard Zhang <RZ>