

Chicago Open 2018: The spice must flow

Edited by Auron Gupta, Jacob Reed, Will Holub-Moorman, Jordan Brownstein, Seth Teitler, Eliza Grames, and Joey Goldman, with contributions by Stephen Eltinge, Matt Jackson, JinAh Kim, Raynor Kuang, Dennis Loo, Rohith Nagari, Sriram Pendyala, and Victor Prieto

Packet by the Editors (2)

Tossups

1. In an early edition of this novel, its protagonist dreams of idyllic scenes from the dawn of European civilization coming to life within a Claude Lorrain landscape. A character in this novel begins shrieking with an “animal voice” until a cloth is stuffed in his mouth, upon watching the corpse of a new father being weighted with stones and thrown into a pond. The protagonist describes sexually assaulting a fourteen year old girl, who hangs herself in shame, in an expurgated chapter of this novel styled as a (*) confession to the monk Tikhon. On his deathbed, a character in this novel asks to hear the story from the Gospel of Luke about the swine plunging down a cliff, which is quoted as the epigraph to this novel and is obliquely referenced by its title. In the *Myth of Sisyphus*, Camus describes the “absurd victory” won by one of its characters who shoots himself rather than sign a confession for the murder of his roommate Shatov. Kirilov and Stavrogin die staging a botched revolution in, for 10 points, what violent novel by Fyodor Dostoevsky?

ANSWER: *The Possessed* [or *Demons*; or *The Devils*; or *Besy*]

<Long Fiction>

2. One material that can be used in this analytical technique is grown on silicon crystals through the deposition of a low-pressure gas-phase mixture of methane and diborane. The main output of this analytical method is set proportional to analyte concentration times the square root of the product of scanning rate and diffusion coefficient in the Randall–Sevcik equation. Application of this method to an analyte solution immediately generates phenomena that can be analyzed via the Stern, Helmholtz, or (*) Gouy–Chapman theoretical frameworks. Stripping analysis is a sensitive version of this technique because high interfacial analyte concentrations can be achieved. A variant of this technique with increased reproducibility uses a mercury drop dispenser to produce and charge “working fluid” mercury droplets suspended from a metal tip in an analyte solution; that variant is called polarography. This method outputs a graph of current versus electric potential. For 10 points, name this electroanalytical technique that comes in linear-sweep and cyclic variants.

ANSWER: voltammetry [accept linear-sweep voltammetry or cyclic voltammetry]

<Chemistry>

3. After being accused of complicity in these actions, Lord Aldington won a record 1.5 million pounds in a 1989 libel suit. Members of the Galicia Division avoided one of these actions by participating in the European Volunteer Workers scheme in Britain. The wacky monarchist Nikolai Tolstoy is best known for writing about the victims of these actions, which he discussed alongside a parallel event in Bleiburg, Austria, in his book *The Minister and the Massacres*. Operation Keelhaul, which subjected as many as a million to this action, is often called the (*) “betrayal” of one of the groups it targeted. Many Ostarbeiter committed suicide rather than undergo this action and face reeducation. At the Yalta Conference, Churchill agreed to oversee these actions, resulting in many Cossacks and White Army émigrés being handed over to imprisonment and execution. For 10 points, name these actions by which many POWs and Nazi collaborators were returned to Stalin’s country after World War II.

ANSWER: forced repatriations to the Soviet Union after World War II [accept answers indicating the sending of POWs to the Soviet Union or post-World War II population transfers to the Soviet Union; accept answers indicating the forced repatriation of the Cossacks; accept USSR or Russia in place of “Soviet Union”; prompt with “to what country?” on partial answers]

<European History>

4. *Description acceptable.* **One set of these labels is used in a section of a *kriti* traditionally sandwiched between the *niraval* and *tani avartanam*. The first member in one set of these labels came before the older *proslamba-nomenos* and was thus designated “gamma.” In another culture, each of these labels corresponds to a suitable *gamaka* that must be used to bring out the appropriate *rasa*. The *Natya Shastra* is the oldest source for a system of these labels that are used in *sargam*. A system of these labels based on (*) “Ut queant laxis” was developed by Guido of Arezzo, who developed a “hand” mnemonic for them. These labels are typically used on the first go-around in the *Sacred Harp* tradition. A system of these labels called *svaras* are used to identify the components of a *raga*. The vowel modifications “ee” and “ah” are used to alter a system of these labels that comes in “fixed” and “movable” types. Solfège is a system of—for 10 points—what labels exemplified by “do,” “re,” and “mi”?**

ANSWER: **pitch** syllables [accept any answer describing **words** or **syllables** that identify **pitches** or **notes**; accept **note names** or **solmization** syllables; accept **sofège** or **sofeggio** **until** it’s named; accept **svaras** before “*proslambanomenos*”]

<Auditory Arts>

5. **In a 2009 paper, Rebecca Kukla and Mark Lance argued that, according to *this* philosopher’s account of perception and action, “experiential” phrases like “Yo, Emma!” could exist without agent involvement. This philosopher claimed to have captured the principles behind the AI in *The Sims* when arguing that his notion of “deontic scorekeeping” provides a route forward for AI research. This philosopher introduced a thesis named for Kant and a 20th century philosopher, according to which people who can use “ordinary... descriptive vocabulary” have all the tools they need to use “alethic modal vocabulary.” This thinker holds that (*) normative practice is discursive because it is necessarily about exchanging reasons. This inferentialist teaches alongside John McDowell at the University of Pittsburgh. This disciple of Wilfrid Sellars developed an “analytic pragmatism” in *Between Saying and Doing*. For 10 points, name this author of *Making it Explicit*.**

ANSWER: Robert (Boyce) **Brandom**

<Philosophy>

6. **While in prison, a Marxist travel writer penned a collection of stories in this language charting the course of human history from cavemen on the Volga. The progenitor of mankind is beset by a different emotion, such as anxiety, hope, and sexual desire, in each canto of an epic poem epitomizing the Romantic “shadowist” phase that this language experienced in the 1920s and 30s. After translating the *Rubaiyat* of Omar Khayyam into this language, the father of a famous (*) film actor took it as inspiration to write a set of 135 quatrains that all end in a word meaning “the tavern.” After repeatedly taking out loans to pay a bribe to the police to free his brother and a fine for sheltering his pregnant unmarried daughter-in-law, the peasant Hori dies before he is able to spiritually absolve his debts by donating a cow, in the first realist novel to be written in this language, Munshi Premchand’s *Godaan*. For 10 points, Harivansh Rai Bachchan helped standard the orthography using the Devanagari script of what major world language?**

ANSWER: Modern Standardized **Hindi** [or Manak **Hindi**]

<Miscellaneous Lit>

7. According to one account, the Maharajah of Jaipur attempted to hospitably lose a game of billiards to this politician, but this politician was so terrible at billiards that he lost anyway. This politician was convinced by Prince Gong to serve as a personal envoy to Japan in an attempt to settle a dispute over the Ryukyu Islands, an event recounted in the journalist John Russell Young's account of spending two years abroad with this leader. This leader ordered a military expedition led by John Rodgers to the island of Gangwha in an unsuccessful attempt to establish trade relations with Korea. This president fired John Lothrop (*) Motley as ambassador to Great Britain in the aftermath of the Senate's rejection of his plan to annex Santo Domingo. Many foreign policy initiatives of this president's administration, including the signing of a reciprocal trade treaty with the Kingdom of Hawai'i, were headed by his Secretary of State Hamilton Fish. For 10 points, name this president who won reelection over Horace Greeley before his administration was embroiled in the Credit Mobilier scandal.

ANSWER: (Hiram) Ulysses S. Grant

<American History>

8. In holography, a component with this relation to the original wave is passed through a severe inhomogeneity in Leith and Upatnieks's technique of wavefront healing. Causality implies that this relation holds between a response function's value at frequency negative omega and the response at positive omega, which constrains response function components according to the Kramers–Kronig relations. In quantum mechanics, the time-reversal operator is antilinear, so the time-reversed wavefunction of a spinless particle requires changing t to negative t and making this change to the particle's (*) wavefunction. Maximum power is transferred from source to load when this relation holds between the load and source impedance. Observables correspond to operators that are unchanged under the combination of this operation and transposition; such operators are said to be Hermitian. For 10 points, name this operation that flips the sign of a complex value's imaginary component.

ANSWER: complex conjugation or conjugate [prompt on twin wave or image before “positive omega”]

<Physics>

9. This deity ended an event that may have been caused by the destruction of the Hollow Mulberry or by a king's uncontrolled sexual libido. The tribal chief in Mount Éméi [UH-may] injured himself because he was ashamed to lose a battle to this deity, who was often depicted with a builder's compass. This deity invented music and was rewritten as an example of the “Way of the True Person” to impose modesty and humility on (*) women in the Daoist tradition. This deity smelted five colors of stone to make the sky blue and uses ashes from burning reeds to end one catastrophe. The sun, moon, and stars moved northwest and the rivers flowed east after this deity restored the four limits and killed a black tortoise. During a fight with Zhuānxū [jwen-shew], Gōnggōng headbutted Bùzhōu [boo-JOH] Mountain, causing a flood that this goddess ended by “mending the heavens.” For 10 points, name this goddess who created aristocrats out of yellow clay, then made other humans by swinging a rope over her head in Chinese creation myths.

ANSWER: Nǚwā [accept Nǚguā or Nükua]

<Mythology/Geography/Current Events>

10. *Note: word forms acceptable.* The noun form of this word titles a book that characterizes the “obscene and grotesque” multiplication of administrative formalities as the “banality of power.” That book titled for this noun describes a privatized form of sovereignty as *commandement*, with an extra “e,” and was written by Achille Mbembé. This is the subtitled approach of a book that calls histories “posited by capital” “History (*) 1” and histories that “do not belong to capital’s life process” “History 2.” That book in the field of study named for this word attacks progress-oriented notions of “historicism” and describes “place[s] for careless talk with boon companions” called *adda*. Within the field named for this word, the production of cultural difference through ambivalence and mimicry was studied in the book *The Location of Culture* by Homi Bhabha. For 10 points, name this field of study exemplified by books like Dipesh Chakrabarty’s *Provincializing Europe*.

ANSWER: **postcolonial** [or **postcolony**; accept **postcolonial** studies; accept ***On the Postcolony*** or ***De la Postcolonie***; anti-prompt on answers including the word **subaltern**; do not accept or prompt on just “colonial” or “colony”]

<Other Academic>

11. This material was intricately carved to produce the *yasería* decorations of the Córdoba Synagogue. This material was used for the main decorations on the Ancient House in Ipswich and other buildings with “pargetting.” Moroccan *riads* often used a polished form of this material called *tadelakt*. This material was used to imitate *pietra dura* inlay in a technique called *scagliola* [skahl-YO-lah]. This material was used to make the elaborate Mannerist frames for the paintings at Fontainebleau. This material was used to make the (*) *intonaco* after an artist produced a *sinopia*. Exterior applications similar to this material are often called “render.” The backdrop of Bernini’s *Ecstasy of Saint Theresa* was made from gilded “rays” of this material. When used to make interior decorative moldings, this material is called stucco. Frescoes are painted directly onto—for 10 points—what paint-like coating used to make “casts” of sculptures?

ANSWER: **plaster** [accept **stucco** before it’s read; accept more specific answers like **plaster of paris**; accept **rendering** before “render”]

<Other Arts>

12. Lab experiments mimicking this process with two layers often distinguish between “doming” and “stratified” behaviors, with a transition to doming driven by entrainment. This process induces a namesake “removal” behavior that may take the form of an “edge-induced” form of this process, or foundering, delamination, or Rayleigh–Taylor instability. This process’s “removal” behavior can be promoted by rehydration, or by refertilization via diking, both of which decrease viscosity. This process induces lattice-preferred orientation of (*) olivine crystals, allowing tomographic imaging to map this process through the resulting seismic anisotropies. This process has values of about “10 to the 25th” and “10 to the 7th” for its Prandtl and Rayleigh numbers, and it occurs below a “mobile lid” on Earth, as opposed to the “stagnant lid” regime seen on Venus. For 10 points, name this process of heat transfer by large-scale fluid motion below the lithosphere.

ANSWER: mantle **convection**

<Other Science>

13. A speech in *The Acharnians* lamenting the plight of these types of people notes that just as they had pursued the enemy at Marathon, they are now being pursued by evil men. In *Lysistrata*, these kinds of men pile wood around the base of the Acropolis and set it on fire, to which women of this type respond by soaking the men with water from their chamber pots. After they mock Aegisthus for allowing Clytemnestra to murder her husband for him, Aegisthus threatens to kill these kinds of characters, who make up the (*) chorus to Aeschylus's *Agamemnon*. In *Oedipus at Colonus*, Creon promises to match Oedipus "blow by blow" even though both of them are now this type of person, for "the dead alone feel no pain." Bdelycleon persuades his father Philocleon to enjoy the life of this type of person instead of always serving on juries. The title characters of Aristophanes's *The Wasps* comprise—for 10 points—what demographic of Athens's most respected citizens?

ANSWER: elderly [or old; accept synonyms]

<Drama>

14. $\alpha V\beta 5$ integrin and FGFR1 serve as co-receptors for this virus, enabling endocytosis after it binds to heparan sulfate proteoglycan. Robert Kotin demonstrated that, uniquely among DNA viruses, the wild type form of this virus integrates into a safe harbor site on the q arm of chromosome 19. Two strands up to 2.4 kB can intramolecularly generate a double stranded DNA molecule in the genome of the "self-complementary" variant of this virus. The single stranded DNA genome of this *Dependovirus* virus features (*) inverted terminal repeats at each end and contains two open reading frames encoding *rep* and *cap* proteins. In Europe, this virus was approved to treat LPLD by transmitting the gene encoding lipoprotein lipase. For 10 points, identify this non-disease causing virus commonly used as gene therapy vectors, which are named for their inability to replicate without coinfection with adenovirus.

ANSWER: adeno-associated virus [or recombinant adeno-associated virus; or self-complementary adeno-associated virus; or AAV; or rAAV; or scAAV; do not accept or prompt on "adenovirus"]

<Biology>

15. *Description acceptable.* A 2013 study by Brian Gold et al. found that people with this characteristic had lower-than-average activity in the left lateral frontal and cingulate cortices, suggesting that they maintained neural efficiency over time. One model argues that people with this characteristic use it to index sets of "rights and obligations" embedded in the ML and the EL. People with this characteristic were divided into six types that differ due to non-dominance and community support in a 1989 book by Suzanne Romaine. A 2013 study by Kenneth (*) Paap and Zachary Greenberg failed to replicate the finding that people with this characteristic have heightened "inhibitory control" when performing the Simon task, as originally reported by Ellen Bialystok et al., who connected this trait to enhanced executive function. The "receptive" form of this ability is frequently seen in adult immigrants who have comprehension, but no command, of an L2. Code-switching in conversation is a common practice among people with—for 10 points—what characteristic, the knowledge of more than one language?

ANSWER: bilingualism [or multilingualism; accept answers that involve knowing or speaking more than one language before the final phrase of the question is read; prompt on code-switching]

<Social Science>

16. After he was posthumously discovered to have written a letter on behalf of this man, the body of David Joris was exhumed and publicly burned. The Bellianist movement took its name from the pseudonym used by Sebastian Castellio for a pamphlet written in response to this man's death. This man identified himself with an archangel who would start an imminent world-wide war in his best-known treatise, which contains a pre-William Harvey description of pulmonary circulation. After escaping (*) prison in Vienne, this man bizarrely showed up at a sermon delivered by one of his opponents, which he may have thought was safe to do because the Libertines faction held the majority in the Consistory. A copy of this man's anti-trinitarian treatise *Restitution of Christianity* was chained to his leg during his execution. For 10 points, John Calvin oversaw the 1553 burning at the stake of what Spanish theologian in Geneva?

ANSWER: Michael Servetus

<European History>

17. *Description acceptable.* This woman drew from her own miscarriage in penning a poetic plea for the wicked to "melt... as the embryo, / whose vital band / Breaks ere it holds." She concluded: "Thus do we weep and wail, and wear our eyes, / Mourning in other's, our own miserie," in a poem occasioned by a relative's death on the battlefield, titled "The dolefull lay of Clorinda." This woman used 128 verse forms throughout an undertaking guided by the commentaries of John Calvin. This aunt of Mary (*) Wroth maintained a chemistry laboratory at Wilton House, where she cultivated a circle of poets that included Ben Jonson. This influential English-language translator of Psalms 44 to 150 is mentioned in the full title of a prose romance in which Basilius attempts to avoid the predictions of the Delphic oracle by abandoning the dukedom of Arcadia. For 10 points, name this Countess of Pembroke, a major early female English poet whose brother wrote the sonnet sequence *Astrophil and Stella*.

ANSWER: Mary Sidney [or Mary Herbert; or the Countess of Pembroke before "Countess of Pembroke" is read; or Philip Sidney's sister; prompt on just Sidney]

<Poetry>

18. The belief that this substance prevented the putrefaction of blood and the use of pairs of forked sticks by men transporting it are reported in the account of Alvise Cadamosto. *The Book of Roads and Kingdoms* notes a tax of one dinar that was placed on every donkey-load of this substance that entered one kingdom. Merchants of this substance would deposit a sample of it, leave the area, then return to see the payment that their trading partners had laid down for it in the (*) "silent trade" system. A place where this commodity was produced was at the center of a trade route that proceeded south from Sijilmasa to Oualata; that production center for this commodity was razed by the troops of Judar Pasha after the Battle of Tondibi. The Songhai obtained much of their wealth from a mine of this commodity at Taghaza. For 10 points, the trans-Saharan trade centered on the exchange of gold for what mineral?

ANSWER: salt

<World History>

19. A “dispositif” based on this genre is structures early works like *Boy Bitten by a Lizard* and *Bacchus*, according to the first lecture of Michael Fried’s *The Moment of Caravaggio*. Fried drew both that idea and his title from Joseph Leo Koerner’s book on the “moment” of this genre in German Renaissance Art. A work in this genre, depicting a turbaned and crowned Saint Catherine holding a palm and a wheel, was rediscovered in 2017 and acquired by the London National Gallery in July 2018. Another painting in this genre unusually takes a side view of the main figure, who faces the harsh light source on the left-hand side, leans toward us, and holds up a right arm with the (*) sleeve rolled up. That allegorical work in this genre does not include a cloth covering the main figure’s mouth, but otherwise depicts that figure with a gold chain-necklace and disheveled black hair, following Cesare Ripa’s *Iconologia*. For 10 points, name this genre that Artemisia Gentileschi combined with an *Allegory of Painting*.

ANSWER: self-portraits [accept *The Moment of Self-Portraiture in German Renaissance Art*; accept Self-Portrait as the Allegory of Painting]

<Visual Arts>

20. The tradition of connecting these events to landmark events in Islamic history took off after one of them supposedly inspired al-Mamun to order his scholars to translate Aristotle. Ibn Sirin, the son of one of Abu Bakr’s slaves, authored several treatises about these events. If an *istikhara* prayer is successful, it is supposed to be followed by one of these events. The Qur’an repeatedly contrasts *ruya hasana*, or “good,” examples of these events, with *aghath al-ahlam*, or “muddled” ones. According to Abu Hurayrah, Muhammad advised spitting in response to an unpleasant examples of these events, which he divided into righteous examples (*) sent by Allah, sad ones sent by Shaitan, and ones “in which a man’s own soul speaks.” Because of one of these events, Muhammad knew that he would be obstructed by the Qurayish upon his return to Mecca to circumambulate the Ka’aba. Despite tradition dictating that Muhammad physically undertook the Night Journey, the Qur’an refers to it as, for 10 points, what kind of experience?

ANSWER: dreams

<Religion>

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Packet by the Editors (2)

Bonuses

1. Each edition of Peter Atkins's textbook *Physical Chemistry* weirdly slightly rephrases his description of this relationship as "one of the most elegant of all conclusions in chemical thermodynamics." For 10 points each:

[10] Name this relationship between the number of components, phases, and degrees of freedom of a solution.

ANSWER: **Gibbs phase** rule

[10] For binary non-electrolyte solutions where one of the components has no vapor pressure, the UNIQUAC method can be used to compute these dimensionless parameters. For electrolyte solutions, the Pitzer equations can be used.

ANSWER: **activity coefficients**

[10] In the regular solution approximation, where both components are volatile and have a nonzero enthalpy of mixing, these relations set logs of activity coefficients of each of the components proportional to the square of the mole fraction of the other component.

ANSWER: **Margules** equations

<Chemistry>

2. In the King James Version, the first verse of the *Miserere*, or Psalm 51, asks God to have mercy according to *this* aspect of himself. For 10 points each:

[10] Name this English word that was invented to translate the Hebrew word *chesed* [HESS-edd]. Luckily, nobody's tried to translate the refrain "*ki l'olam chasdo*" [kee leh-oh-LOM hoss-DOH] from Psalm 136 using this word, instead usually translating *chesed* as "mercy."

ANSWER: **lovingkindness**

[10] An even more blatant neologism is the transliteration "sabaoth" for the Hebrew *tz'vaot* [tzeh-vah-OAT], which refers to "hosts," often of *these* beings. In the Jewish *Kedushah* [keh-doo-SHAH], translated as the Christian *Sanctus*, the congregation joins in with these beings to sing "Holy, Holy, Holy."

ANSWER: **angels** [or **archangels**; accept **seraphim** or **sephirot**]

[10] We get the English "Jehovah" from a mispronounced Latin transliteration of "yod hey vav hey," which is pronounced "Adonai" in liturgical contexts. Outside of prayer, Jews pronounce "yod hey vav hey," using *this* other Hebrew word, which is often abbreviated by a single Hebrew letter followed by an apostrophe.

ANSWER: **HaShem**

<Religion>

3. The Supreme Court has repeatedly overturned laws against this kind of speech, in decisions like *R.A.V. v. St. Paul* and *Matal v. Tam*. For 10 points each:

[10] Give this term for speech that intends to disparage or intimidate members of a protected group. Richard Delgado's landmark 1982 article "Words that Wound" called for the implementation of independent tort actions against this type of speech.

ANSWER: **hate** speech

[10] In her essay "Public Response to Racist Speech," this legal scholar built on Delgado's argument to advocate criminal laws against hate speech, which she claims represents a "psychic tax on those least able to pay." This scholar also popularized the notion of reparations for slavery in her article "Looking to the Bottom."

ANSWER: Mari **Matsuda**

[10] Richard Delgado and Mari Matsuda are two central proponents of this legal school of thought, which focuses on the relationship between law and racism. Other key members of this school include Patricia Williams and Derrick Bell.

ANSWER: **Critical Race Theory** [or **CRT**, do not accept or prompt on "Critical Legal Studies"]

<Other Academic>

4. In these people's creation myth, the first humans Abuk and Garang were formed from clay and left to mature in a pot under a tamarind tree. For 10 points each:

[10] Name these people whose supreme God Nhialic cut the rope binding him to earth after Abuk planted too many seeds.

ANSWER: **Dinka**

[10] When Garang said that there would not be enough food for 15 children, he introduced this concept to the world. The Moon gave the Hare a split lip for neglecting to tell humans that they will be reborn after this process, which is presided over by Osiris in Egyptian myth.

ANSWER: **death**

[10] In these people's creation myth, Unkulunkulu sends a chameleon to tell people they won't die, but the lizard Abantu is much quicker and brings death to people.

ANSWER: **Zulu**

<Mythology>

5. This type of treatment is typically spread out, or "fractionated" at up to 2 Gy per day to allow non-cancerous cells to recover. For 10 points each:

[10] Identify this alternative to immunotherapy or chemotherapy, in which an accelerator fires sheer energy to ionize and damage the DNA of cancer cells.

ANSWER: **radiotherapy** [or ionizing **radiation**; or **radiation** therapy; or **RT**x; or **XRT**]

[10] Left-sided breast cancer patients are instructed to perform a "deep inspiration breath hold" to limit radiation exposure to the heart and lungs. As a result, their lungs will hold this amount of air that is equal to the total lung capacity minus the residual volume.

ANSWER: **vital capacity** [or **VC**]

[10] Metastatic cancer patients receiving both radio and immunotherapy may experience this miraculous phenomenon, in which both the directly targeted tumor and some other tumor far away shrink in response to radiation.

ANSWER: **abscopal** effect

<Biology>

6. At the end of this short story, its protagonist is left holding a slice of watermelon after asking her friend's son for a bite. For 10 points each:

[10] Name this short story that titles the breakthrough collection of Taëko Kono. Its protagonist Akiko has a daydream in which she imagines a boy's innards spilling out while he's being sadomasochistically beaten by his father.

ANSWER: "**Toddler-Hunting**" [or "**Yōji-gari**"]

[10] Kono won this semi-annual Japanese literary prize for her 1963 short story "Crab." This prize is named for the author of "Autumn Mountain" and "Hell Screen."

ANSWER: **Akutagawa** Prize [or **Akutagawa** Ryunosuke Shō]

[10] Kono cites this literary work as the inspiration for her depictions of sadomasochism, and wrote a travelogue about her pilgrimage to its author's home at Haworth. This book, which features a scene in which the protagonist asks her father to buy her a whip, was also the basis for Minae Mizumura's 2002 work *A True Novel*.

ANSWER: **Wuthering Heights**

<Short Fiction>

7. Clement Greenberg wrote that he first saw this style of painting in the works of Janet Sobel, which he claimed to have directly inspired Jackson Pollock. For 10 points each:

[10] Give this term that refers to paintings that treat the whole canvas equally, exemplified by Pollock's drip paintings.

ANSWER: **all-over**

[10] Greenberg and Pollock both saw Sobel's paintings at the *Art of This Century* gallery, which was run by a collector with *this* last name. Another collector with this last name commissioned one of Frank Lloyd Wright's last designs for a namesake museum with a spiral-ramp gallery in New York.

ANSWER: **Guggenheim** (Those collectors are Peggy Guggenheim and Solomon R. Guggenheim.)

[10] Another female painter with an outsize influence on Pollock was *this* student of Hans Hofmann, who helped steer Pollock away from his Regionalist training toward more contemporary trends. She was also responsible for introducing him to patrons and critics like Guggenheim and Greenberg.

ANSWER: Lee **Krasner** [or Lenore **Krasner**]

<Visual Arts>

8. This man is sometimes proposed as the author of the woodcut-illustrated *Hypnerotomachia Poliphili*, which he published. For 10 points each:

[10] Name this man who used a dolphin symbol and the motto "Make haste slowly" for his namesake Venetian printing press, which introduced italic type and put out popular octavo pocket editions of the classics.

ANSWER: **Aldus Manutius** [accept either name]

[10] Aldus had earlier debuted the Roman typeface he used for his edition of the *Hypnerotomachia* in this amply-bearded cardinal's book *Etna*. This namesake of that typeface based his codification of Italian grammar on the 14th-century Tuscan of Petrarch.

ANSWER: Pietro **Bembo**

[10] In 1496, Aldus secured a monopoly on printing in this language in Venice. Native speakers of this language such as Cardinal Bessarion and George of Trebizond popularized its manuscripts in the Renaissance World.

ANSWER: **Greek** [accept Ancient **Greek**]

<European History>

9. The author of this essay traces the birth of the title concept to his realization, while writing a poem for someone he was in love with, that “if I wanted to I could use the telephone instead.” For 10 points each:

[10] Identify this tongue-in-cheek 1959 manifesto proposing a new literary movement that places the poem “between two” individuals “instead of two pages.”

ANSWER: “**Personism**: A Manifesto”

[10] According to the essay, Personism was born after its author spent one of these periods of time with LeRoi Jones. Lawrence Ferlinghetti commissioned a volume of poems, including “Personal Poem” and “A Step Away From Them,” that the same author wrote during these periods of time.

ANSWER: **lunch**times [or **lunch** hours; or **lunch** breaks; no other answer promptable or acceptable]

[10] This New York School poet wrote the essay “Personism” and included “The Day Lady Died” in his collection *Lunch Poems*.

ANSWER: Frank **O’Hara**

<Poetry>

10. Valerie Hart was named the first president of a “Free State” declared in this country during the Rupununi Rebellion. For 10 points each:

[10] Name this country where the U.S. backed the People’s National Congress party of long-time strongman Forbes Burnham over the People’s Progressive Party of Cheddi Jagan.

ANSWER: **Guyana**

[10] Burnham likely ordered the assassination of the rockstar Guyanese historian Walter Rodney, who is best known for writing this book that argues that imperialist exploitation is responsible for present-day poverty in Africa.

ANSWER: ***How Europe Underdeveloped Africa***

[10] Burnham embarked on a tour of African countries such as Zambia and Tanzania after bringing his country into this group, which was established by leaders like Nehru and Sukarno at a 1956 conference in Yugoslavia.

ANSWER: **Non-Aligned Movement**

<World History>

11. The speaker of a Yehuda Amichai poem tells the addressee, “that’s not a scar you feel under my shirt, that’s” one of these texts written by his father. For 10 points each:

[10] Name these texts. Sixty of them written by Jason Fitger make up a 2014 novel by Julie Schumacher.

ANSWER: **letters of recommendation** [or **recommendation letters**, or **letters of introduction**, accept more specific answers such as **letters of recommendation** for a job; prompt on **letters**] (The novel is *Dear Committee Members*.)

[10] Early in this novel, the Comte de Rochefort, working on behalf of Cardinal Richelieu, steals a letter of recommendation that the protagonist was planning to present to Monsieur de Tréville.

ANSWER: *The **Three Musketeers*** [or *Les **Trois Mousquetaires***]

[10] In this work by Gabriel García Márquez, a letter of recommendation written by Colonel Aureliano Buendía convinces the residents of Macondo to allow a nameless colonel to give a Christian burial to a French doctor.

ANSWER: ***Leaf Storm*** [or *La **Hojasca***]

<Miscellaneous Lit>

12. The N th member of this man's namesake family kernels consists of the sum of the first N Dirichlet ["deer"-ih-"clay"] kernels, all over N . For 10 points each:

[10] Name this Hungarian mathematician who used those kernels to prove that, if a function f is integrable on the circle, then its Fourier series is uniformly Cesàro [cheh-ZAH-roh] summable to f . With Frigyes Riesz [free-jesh reess], he gave a short proof of the Riemann mapping theorem.

ANSWER: Lipót **Fejér**

[10] Fejér's theorem can be strengthened to the kind of summation named for *this* mathematician, who was one of the earliest developers of group theory. He thus gives his name to commutative groups.

ANSWER: Niels Henrik **Abel** [accept **abelian** groups]

[10] That extension of Fejér's theorem uses the kernels named for *this* mathematician, who also showed that the periodic summation of a function and its Fourier transform are equal. A construct created by this man has a PMF of "lambda-to-the- k , e -to-the-minus-lambda, all over k -factorial."

ANSWER: Siméon Denis **Poisson** (That's the PMF of the Poisson distribution.)

<Other Science>

13. This book argues that its subjects classified all women as either "white" or "red," depending on if they were asexual and virtuous, or promiscuous. For 10 points each:

[10] Name this study of the Nazi *Freikorps* ["FRY"-core] by Klaus Theweleit [TAY-vuh-"light"], whose first volume is subtitled for "women, floods, bodies," and "history."

ANSWER: ***Male Fantasies*** [or ***Männerphantasien***]

[10] In *Male Fantasies*, Theweleit argues that fascism allows the expression of "imprisoned desires," building on *this* thinker's claim that fascism gives the masses the "chance to express themselves" in the epilogue to his essay "The Work of Art in the Age of Mechanical Reproduction."

ANSWER: Walter (Bendix Schönflies) **Benjamin**

[10] In books like *Upheavals of Thought* and *Hiding from Humanity*, this more recent thinker has argued that many of the emotional pathologies identified in Theweleit's *Male Fantasies* are present in American society. She wrote about the role of international feminism in global development in the book *Sex and Social Justice*.

ANSWER: Martha (Craven) **Nussbaum**

<Social Science>

14. The protagonist of this novel tries to steal a large quantity of radioactive "quap" from Mordet Island in order to save the finances of his Uncle Edward. For 10 points each:

[10] Name this H. G. Wells novel loosely based on the history of Coca-Cola, which follows George Ponderevo's involvement with the title patent medicine.

ANSWER: ***Tono-Bungay***

[10] In 1909, this author wrote to his friend Blanche Jennings, "you *must, must* read *Tono-Bungay*." According to Edward Mendelson, this writer conceived of his novel *Women in Love* largely as a response to Wells' book.

ANSWER: D(avid) H(erbert) **Lawrence**

[10] In his book *Language of Fiction*, this literary critic argued that Wells' "descriptive commentary" on "Condition of England" represents the central character of *Tono-Bungay*. His other works include *Consciousness and the Novel* and *The Modes of Modern Writing*.

ANSWER: David **Lodge** (Yes, that David Lodge!)

<Long Fiction>

15. The Silvertown disaster occurred in this industry, whose female workers were horrifyingly called “canary girls” due to the toxic chemicals that yellowed their skin. For 10 points each:

[10] Name this industry. A ministry for this industry was created following a crisis in which Lord Northcliffe, the owner of *The Times*, used his newspapers to blame shortages in this industry for the death of his son.

ANSWER: **munitions** [or **shells** industry; or **ammunition** industry; prompt on **armaments**, **weapons**, or similar answers]

[10] After the 1915 Shells Crisis, this Secretary of State for War lost control over munitions to the new Ministry of Munitions. This man appeared on WWI recruitment posters before dying when the *HMS Hampshire* was mined.

ANSWER: Lord **Kitchener**

[10] The wage regulations imposed by the Munitions of War Act were opposed by a worker’s committee in this city, where Mary Barbour helped lead rent strikes during its “red” period. This non-Australian city was home to razor gangs in the 1930s.

ANSWER: **Glasgow**

<European History>

16. One of this organization’s superbly acronymic working groups was GHOST, or Grand Homosexual Outrage at Sickening Televangelists. For 10 points each:

[10] Name this organization formed in 1990, which attempted to combat homophobia and anti-gay violence by forming street brigades such as the Bigot Busters and the Pink Panthers Patrol.

ANSWER: **Queer Nation**

[10] Queer Nation often used this specific tactic, in one case creating fake advertisements that replaced the “P” in the Gap logo with a “Y.” This two-word tactic, associated with the magazine *Adbusters*, appropriates branded images and logos to spread a political message.

ANSWER: **culture jamming**

[10] Many of Queer Nation’s early members were also members of ACT UP, a group that staged direct actions at pharmaceutical corporations and the FDA to protest the lack of research into cures for *this* sexually-transmitted disease.

ANSWER: **AIDS** [or **Acquired Immune Deficiency Syndrome**; accept **HIV** or **Human Immunodeficiency Virus**]

<American History>

17. Craftspeople from this city produced huge numbers of “tripod vessels,” which were widely imitated in the surrounding region. For 10 points each:

[10] Name this city from which the Wagner murals were stolen. The spread of the *talud-tablero* architectural style was probably due to the influence of this city.

ANSWER: **Teotihuacan**

[10] The vertical *tablero* sections of monuments at Teotihuacan were often painted in a variety of bright colors, a practice given this generic name. Notoriously, Classical European sculptures and temples were actually decorated in this fashion rather than being pure white.

ANSWER: **polychrome** [accept word forms]

[10] Artisans at Teotihuacan also produced a number of highly elaborate “mosaic” objects of *this* kind, which were both worn in ritual and used as funerary offerings. Olmec craftsmen, by contrast, usually made these items out of solid pieces of jade.

ANSWER: face **masks**

<Other Fine Arts>

18. William Happer is notorious for his climate change denialism, but he’s also done important work in physics. For 10 points each:

[10] Happer came up with the idea of using a laser to excite atoms of this element in the mesosphere to form a “guide star” for use in adaptive optics. Wolfgang Ketterle [KEH-tur-lee] created a Bose–Einstein condensate of this element four months after the first condensate was created using rubidium, another alkali metal.

ANSWER: **sodium** [accept **Na**]

[10] Happer has extensively studied this type of collision with a two-word name, which conserves total angular momentum but alters the hyperfine states of the atoms involved. It can be used in a namesake form of optical pumping in which these collisions with an alkali metal gas are used to produce a sample of hyperpolarized noble gas.

ANSWER: **spin-exchange** collisions [accept **spin-exchange** optical pumping]

[10] Happer’s work underlies the invention of the “spin exchange relaxation-free”—or SERF [“surf”]—form of these devices, which can achieve higher sensitivities than the SQUID [“squid”] form of these devices.

ANSWER: **magnetometers** [accept SERF **magnetometers** or SQUID **magnetometers**]

<Physics>

19. Hierocles’ account of this process describes a series of concentric circles describing people with whom one has increasingly distant relationships. For 10 points each:

[10] Give the Greek name for this process of perceiving “ownership,” which is central in Stoic ethics. When something undergoes this process, its welfare gives one reasons to act.

ANSWER: ***oikei-osis***

[10] In *De finibus bonorum et malorum*, this philosopher opted for two different Latin translations of *oikeiōsis*, “*commendatio*” and “*conciliatio*,” neither of which caught on. This orator adapted the style of Demosthenes for his attacks on Mark Antony.

ANSWER: Marcus Tullius **Cicero** [accept **Tully**]

[10] According to this author, Chrysippus claimed that, for animals, *oikeiōsis* primarily manifests as a form of caring for one’s own existence. This author recorded that claim and many biographical details in his *Lives and Opinions of Eminent Philosophers*.

ANSWER: **Diogenes Laërtius** [prompt on partial answer; do not accept or prompt on “Diogenes the Cynic”]

<Philosophy>

20. The Miles Davis songs “Tune-Up” and “Solar” [soh-LAHR] are built entirely from chains of this chord progression. For 10 points each:

[10] Name this basic chord progression in jazz, most commonly seen as cadential formula or turnaround. This three-chord progression is often preceded by vi [“six”], as in Rhythm changes or the Ragtime progression.

ANSWER: **ii–V–I** [“two five one”]

[10] Davis wrote those songs after taking three semesters of music theory at *this* conservatory, where jazz theorist John Mehegan later taught. Nina Simone briefly studied at this New York conservatory, whose jazz department is now led by the arch-conservative Wynton Marsalis.

ANSWER: **Juilliard** [JOO-lee-ard] School [accept **Institute for Musical Arts**]

[10] A common way to spice up a ii–V–I progression is to perform *this* technique on the V [“five”] chord, which turns the baseline into the chromatic slide ii–♭ II–I [“two, flat-two, one”]. This technique is based on the fact that a harmonically distant pair of dominant seventh chords, like G-7 and D-flat-7, happen to share two pitches, which in this case are F and B.

ANSWER: **tritone substitution** [prompt on chord substitution or subbing]

<Auditory Arts>