Chicago Open 2018: The spice must flow
Edited by Auroni 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 (1)

Tossups

1. **This effect is typically notated by drawing an arrow between the letters a and d, which each have a numerical superscript. This effect is responsible for the creation of the unusual "Breslow intermediate" when a thiazolium salt catalyst is used in the Stetter reaction. N-heterocyclic carbenes produce this kind of effect when they catalyze the β-alkylations of α,β-unsaturated esters, nitriles, and amides. The conversion between a and d synthons simply by adding two electrons is described as the (*)** "redox" form of this effect. The initial attack of the cyanide anion on the carbonyl group, followed by the rearrangement of the intermediate, produces this effect in the benzoin condensation. This phenomenon was first reported by Dieter Seebach and E. J. Corey, who showed how a 1,2-dithiane acting as a masked carbonyl equivalent unusually reacts with an electrophile instead of a nucleophile. For 10 points, the polarity of a functional group is inverted due to what effect with a German name?
ANSWER: **_umpolung_** [accept **polarity inversion** or **polarity reversal** or similar answers before "polarity" is read]
<Chemistry>

2. **After getting elected to the British parliament, participating in the Kapp putsch, and declaring himself to be the Dalai Lama, Ignaz Trebitsch-Lincoln spent his last years working as a spy in this city. St John the Wonderworker was part of a community that was evacuated from this city to the island of Tubabao; that émigré community of White Russians supplied many of the "taxi-dancers" that worked this city's cabarets. Stirling Fessenden served as a powerful chairman of a Municipal Council in this city, where his police force's shooting of protesters sparked the (*)** May 30th movement. A 1927 purge of Communist union workers in this city was carried out with the help of the Green Gang, whose opium smuggling contributed to this city's reputation as a vice capital. This city's French Concession was administered separately from its International Settlement, which was located in the Bund district. For 10 points, name this Chinese port city at the mouth of the Yángtzě.
ANSWER: **Shànghǎi**
<World History>

3. **In this poem, a goat stands "immune to the force of gravity" as the "sun kindl[es] its shoulders to maximum heat like acetylene, / dyeing them white." The penultimate stanza of this poem laments that a "public out of sympathy / with neatness" had damned Henry James "for decorum," and quips that "the Greeks / amused themselves with delicate behavior / because it was 'so noble and so fair.'" The author divided a never-realized poem about Adam and Eve into the poetic dialogue "Marriage" and this other poem, whose title is meant to be parsed together with its first two words, (*)** "of ice." This longest poem in the collection *Observations* inlays many quotations from a Department of the Interior field guide. It ends by describing an animal "symmetrically pointed, / its claw cut by the avalanche / 'with a sound like the crack of a rifle, / in a curtain of powdered snow launched like a waterfall.'" For 10 points, name this Marianne Moore poem about the peak of Mount Rainier, which resembles the title invertebrate.
ANSWER: "An **Octopus**"
<Poetry>

4. **In one of his close-up portraits, this photographer used a bright turquoise background and had his subject wear erratically-applied red lipstick, with thick white paint swooping around her inner corner, turquoise above her eyes, and green flaring out from under her eyes. This man's most famous series was commissioned to accompany a story about the auctioning of 79 royal gowns in 1997. This man collaborated with Carine Roitfeld while producing a number of series for Tom Ford. Like his colleagues Terry Richardson and Bruce (*)** Weber, this man has been dropped by most of his major clients following allegations of widespread sexual misconduct that surfaced in January 2018. This friend and frequent photographer of Kate Moss did Princess Diana's last photoshoot and later garnered controversy for a 2003 ad showing the Gucci "G" shaved into a model's pubic hair. For 10 points, name this Peruvian–British fashion photographer.
ANSWER: Mario (Eduardo) **Testino** (Silva) (The first photo is a 2002 portrait of Kate Moss.)
<Visual Arts>

5. **An anonymous one of these texts includes a parable in which a king secretly marries a poor woman in the forest, whose children are then nearly driven away from the king's castle by his guards. A compilation of these texts includes a story in which a man cuts off a pig's foot to feed another man, then cheerfully explains all that to the pig's irate owner. An anonymous early one of these texts called the *Legend of the Three Companions* inspired an extremist group called the "Spirituals." The three-stage theology of (*)** Joachim of Fiore profoundly influenced the first three of these texts, which were written by the author of the "Dies Irae," Thomas of Celano. The *Legenda Major* is one of these texts by Saint Bonaventure. The *Little Flowers* is a medley of—for 10 points—what texts that usually recount their subject receiving the stigmata and preaching to the birds?
ANSWER: **life** of **Saint Francis** of Assisi [accept obvious equivalents like **biographies** for "life"; prompt on hagiographies or just Saints' Lives by asking "Which saint?"]
<Religion>

6. **The mixed symmetry states of these objects can be described using the second iteration of Akito Arima and Francesco Iachello's interacting boson model. Some transitions in a deformed model of these objects are governed by the Alaga rules. An influential series of three papers on the physics of these objects is known as the Bethe** ["beta"] **Bible. A collective model of these objects was suggested by James Rainwater and developed by Ben Mottelson and Aage** [AW-uh] **Bohr. "Mirror" pairs of these objects, which have flipped numbers of constituents, are studied to estimate the (*)** Coulomb contribution to their energy. Nordheim's empirical coupling rules are used to find the ground state spin for "odd–odd" examples of these objects. The mass defect of these objects reflects their binding energy, which mostly arises from the residual strong force. For 10 points, name these objects that were discovered in the gold-foil experiment.
ANSWER: atomic **nuclei** [accept even–even **nuclei** before "Bible"]
<Physics>

7. **This brand of philosophy was reconciled with Socratic and Ciceronian views in the treatise *On Wisdom* by Pierre Charron. This brand of philosophy is founded on the principle of *isosthenia*, or "equipollence." A renaissance in this brand of philosophy provoked a "crisis" and spurred both the Reformation and the Counter-Reformation, according to a history by Richard Popkin. This brand of philosophy was used to support a fideist interpretation of the book *Natural Theology* in an essay that describes (*)** elephants seeming to pray and outlines the "ten modes" of this brand of philosophy. Quotations from this brand of philosophy were carved into the rafters of the study and library of a philosopher who also had his personal medal inscribed with the Greek word *epecho*, a verb form of *epochē*. The essay "Apology for Raymond Sebond" and the motto "What do I know?" exemplify—for 10 points—what brand of philosophy that Michel de Montaigne derived from his reading of Sextus Empiricus?
ANSWER: **Pyrrhonian** skepticism [or **Pyrrhonism**; accept just **skeptic**ism]
<Philosophy>

8. *Description acceptable.* **A massive 11th-century object produced through this activity was recreated in the 1770s by Abraham Farley. This activity was performed three times instead of twice in certain cases via the "foot of the fine" innovation introduced by Hubert Walter. This technology was shown to have had relatively widespread adoption in the Carolingian era in a 1989 book by Rosamond McKitterick, and its "Implications" for the 11th and 12th century were described in a book by Brian Stock. The material basis for and mentality shift accompanying the massive adoption of this technology in 13th-century England were analyzed in a 1979 book by Michael T. (*)** Clanchy. In Anglo-Saxon England, this skill was used to produce objects called the Burghal and Tribal Hidages. Proficiency in this skill was a hallmark of monks at the Abbey of St. Gall, which preserves many early objects made with it. Objects created using this skill were collected into cartularies. For 10 points, name this technology used to produce the Pipe Rolls and the Domesday Book.
ANSWER: **writing** [accept reasonable equivalents like "the written **word**" or more specific answers like **record**keeping, **survey**ing, **copy**ing, **transcrib**ing, or **census** making; accept **literacy** or equivalents]
<European/Canadian/Australian History>

9. **An article titled for "patterns" of these things claims they often involve a "Rebecca myth," or the process of lionizing formerly unloved predecessors. The "field" of these things required the shift from "diffuse symbolic capital" to "objectified symbolic capital," according to an essay on their "genesis" by Pierre Bourdieu. An earlier work argues that these things result from the "horror of privilege" associated with mass democracy. These things are stratified based on different "time spans of discretion" according to a "general theory" of them by Elliott Jaques. These things have come to signify "interference with the market," according to a book satirically subtitled for their "secret joys," by David (*)** Graeber. These things represent the means of transforming social action into rationally organized action, according to a book that attributes their "perpetuity" in Western culture to their use of impersonality, specialization, and hierarchy; that work is *Economy and Society* by Max Weber. For 10 points, name these administrative systems generally comprised of unelected officials.
ANSWER: **bureaucracies** [or **bureaucracy**; accept **bureaucratic** field; prompt on companies or governments or states; accept more specific answers like **industrial bureaucracy**]
<Social Science>

10. **In a novel by this author, a worker at the butcher is strip-searched and weighed to make sure she doesn't steal, so she gets revenge by sleeping with the butcher's husband. One of this author's characters goes to the marshlands to catch frogs and "punish them for being frogs" by stabbing them with a safety pin. Two of this author's characters use *Home and Garden* magazine pictures to pretend to have a pillow fight on a king size bed and watch American sitcoms. A four-year-old girl burns a tire around her friend's neck because the Young (*)** Tigers tell her he is a sell-out in a novel by this author. Adam De Vries defends Reverend Francois Bornman and men who participate in orgies with Niki and other black women at Johannes Smit's barn in this author's novel *The Madonna of Excelsior*. This author wrote about the professional mourner Toloki moving in with a woman from his village, Noria, after her five-year-old son Vutha is killed during post-Apartheid violence. For 10 points, name this South African author of *Ways of Dying*.
ANSWER: Zakes **Mda** [or Zanemvula Kizito Gatyeni **Mda**]
<Long Fiction>

11. *Quantity and object type required*. **The size of the Hubble Space Telescope's primary mirror was selected to allow this specific quantity to be calculated in the Virgo Cluster, and values of this quantity were used to calibrate secondary methods as part of Hubble's H_0** ["H-zero"] **Key Project. Water maser data from NGC 4258** ["N-G-C four-two-five-eight"] **gave an improved zero-point value in the empirical relation used to infer this quantity, which was also improved by comparison with OGLE** ["ogle"] **survey data from the Large Magellanic Cloud. The observational targets of this measurement have a characteristic sawtooth-shaped light-curve, and their (*)** apparent magnitudes can be converted to the desired quantity thanks to a pattern induced by the helium ionization kappa mechanism. A period–luminosity relation discovered by Henrietta Swan Leavitt is used to determine—for 10 points—what quantity, which is how many light-years away certain variable stars are?
ANSWER: determining the **distance to Cepheid**s [accept answers indicating **how far away** a type I or Delta **Cepheid** variable star is; prompt on answers indicating detecting or observing or finding a Cepheid variable star; prompt on answers indicating determining or calibrating distances]
<Other Science>

12. **A townhouse on this neighborhood's Willow Street is home to the only church in the Western Hemisphere that conducts Danish-language services. William Jay Bolton created a complete canon of figural stained glass windows for this neighborhood's Saint Ann and the Holy Trinity Episcopal church. In 2017, this neighborhood's "Watchtower" sign was removed after the (*)** Jehovah's Witnesses sold their international headquarters in it. This neighborhood began to develop after Hezekiah Beers Pierrepont bought a large amount of land in an area previously called Clover Hill. A number of buildings along this neighborhood's Furman Street were demolished to achieve Robert Moses's plan for a cantilevered promenade that runs over IS-278 in this neighborhood. The *Nassau* steam ferry originally operated between this neighborhood and Fulton Street. Cobble Hill and DUMBO both border—for 10 points—what affluent Brooklyn neighborhood that sits across the East River from Lower Manhattan?
ANSWER: **Brooklyn Heights** [or **Brooklyn Village**; prompt on Brooklyn before "Brooklyn" is read; accept the **Heights** after "Brooklyn" is read, but prompt on it beforehand]
<Geography>

13. **The preparation of this foodstuff is the subject of the third part of a book by Ken Forkish. This specific food is made in a basic recipe that's subjected to a series of variations in the first book by Elisabeth Prueitt's colleague Chad Robertson. It's not a sausage, but a particularly famous maker of this food is named for founder Isidore Boudin** [boo-DEEN]**. First-time makers of this food often get started by using the skins of grapes or other fruits that exhibit a (*)** "bloom." This first step in making this food is also used to make a pound cake-like Amish food named for "friendship." The first step in making this food is similar to a poolish. Ethiopian *injera* is often considered to be a flat version of this food. This food's "starter" needs to be "refreshed" to cultivate wild yeasts and lactobacilli. San Francisco bakeries produce an especially famous version of—for 10 points—what kind of fermented bread named for its lactic acid flavoring?
ANSWER: **sourdough** bread [or **levain** bread; prompt on just breads or country-style loafs]
<Other Academic>

14. **In a routine developed by Lodovico de' Bianchi, a character with this profession delivers "a hundred and fifteen conclusions," such as: "Someone who is always wrong is never right" and "that which is square is not round." A specialist of these roles named Soldano Aniello wrote a book of *Fantastic and Ridiculous Etymologies* from which he quoted during performances. Valere's servant alternately leaps out of and scales the wall to a window to impersonate both a member of this profession and his twin brother Narcissus, in a version of a popular scenario depicting a (*)** "flying" person of this type. The stock character with this profession wears a mask covering only his nose and forehead meant to mock his Bolognese upbringing, struts around spouting pseudo-Greek and Latin phrases, and enjoys a friendly rivalry with the Pantalone. A character with this profession allows only the music teacher Don Bazile to visit Rosina, whom he locks up in his house. For 10 points, Bartholo in *The Barber of Seville* exemplifies a stock commedia dell'arte character of what educated profession?
ANSWER: **doctor**s [or **doctore**; or **docteur**]
<Drama>

15. **One of these ensembles was formed by ECM's Manfred Eicher to record the creatively-titled albums *Standards*, volumes 1 and 2. Another of these ensembles included originals like "Beauty Has it Hard" and "As This Moment Slips Away" on a 2015 album made with Joshua Redman. One of these groups formed by a current Harvard professor included covers of M.I.A.'s "Galang" and Michael Jackson's "Human Nature" on the albums *Accelerando* and *Historicity*, A late '90s series of albums titled *The Art of* [this ensemble] featured its leader's trademark jazz treatments of (*)** Radiohead songs. The Bad Plus is one of these ensembles, whose "conversational" use was pioneered by a group including Paul Motian [MO-shin] and Scott LaFaro, who recorded *Sundays at the Village Vanguard*. This kind of ensemble has become the typical showcase for virtuosos like Brad Mehldau, Vijay Iyer [EYE-er], and Keith Jarrett. Bill Evans led—for 10 points—what small jazz ensemble in which a bassist and drummer accompany a pianist?
ANSWER: jazz **trio**s [or piano **trio**s; accept answers that list **piano**, double **bass**, and **drum**s, in any order, but they need all three]
<Auditory Arts>

16. **Josephus claimed that Tiberias exiled Herod Antipas to this city, by which he likely meant the smaller "Convenarum" city of this name in Novempopulania. Herodian reports that Laetus, a general at a battle fought near this city, delayed his cavalry charge in hopes that the opposing commanders would kill each other. Drusus established a council that met at a sanctuary in this city to elect a high priest of the imperial cult. Tacitus's account of a speech arguing for provincial citizens to be allowed to become Senators is often compared with the transcript found on a bronze tablet in this city, where the speech's deliverer, Emperor (*)** Claudius, was born. This city was the largest of a tripartite Comata, or "long-haired" region, and the capital of a namesake province bordered by Narbonensis and Aquitania to the south. Septimius Severus defeated Clodius Albinus at a massive battle named for this city, where Against Heresies was penned by its archbishop Irenaeus. For 10 points, name this greatest city of Roman Gaul, which became modern-day French city on the Rhone.
ANSWER: **Lugdunum** [or **Lyon**]
<European History>

17. *Description acceptable.* **In 2018, Browning et al. applied the SPRIME** ["s prime"] **method to data from the 1000 genomes project to propose that this phenomenon occurred in three "pulses." Sankararaman et al. discovered that this phenomenon produced several "deserts" greater than 10 Mb in size, including one containing the *FoxP2* gene on chromosome 7. According to Evans et al., this phenomenon explains the coalescence age of haplogroup D of the protein microcephalin, a gene regulating (*)** brain size. An *EPAS1* allelic variant improving oxygen transportation is prevalent among Tibetans due to this process, which may have resulted in the introgression of HLA-B*73 from the Denisovans. This process is now thought to have occurred between 100,000 and 40,000 years ago, both before and after the out of Africa migration. For 10 points, name this phenomenon that is thought to account for 1 to 6 percent of the genomes of modern Europeans and Asians due to the close proximity of their ancestors to Neanderthals.
ANSWER: inter**breed**ing of modern **human**s and **Neanderthal**s [or **Neanderthal–human admixture**; or **Denisovan–human** inter**breed**ing; or **Denisovan–human admixture**; or **human–hominid** inter**breed**ing; or **human–hominid admixture**; accept inter**breed**ing or **admixture** after "Neanderthal" is read, but prompt on them before; accept nonscientific answers conveying "**humans breeding with Neanderthals**"]
<Biology>

18. **A 1992 study by John Wiltshire examines the frequent references to illness and good health in this author's novels. This author's reputation as a satirist was largely established by D. W. Harding's essay "Regulated Hatred." A 1975 book by Marilyn Butler asserts that, rather than being isolated from contemporary events as usually supposed, this author brought a conservative perspective to the "war of ideas." The public at large was introduced to this writer through a selectively-edited *Memoir* published by (*)** her nephew James Edward, which portrayed her as sweet-natured and uninterested in literary success. An essay about this author "and Empire" reads colonialist sentiments into the "dead silence" of one of her heroines upon hearing about slave labor on her uncle Thomas Bertram's plantation in Antigua. For 10 points, Edward Said examined the imperialism implicit in what author's novel *Mansfield Park*?
ANSWER: Jane **Austen**
<Miscellaneous Lit>

19. **In a 2016 essay on the "universe" of this character, Laura Mulvey analyzes the use of melodrama to create "topographic tensions" in this character's life. This character listens to an offscreen neighbor lament her impulsive decision to follow the example of the person in front of her in line at the butcher's and buy a large amount of veal. This character goes to several shops in a fruitless hunt to replace a button on a coat sent from Canada by her sister Fernande, and helps another character memorize Charles Baudelaire's "The Enemy." A rolling (*)** neon light from outside is visible in shots of this character's dining room table, where she repeatedly deposits money into a soup tureen. After she burns a pot of potatoes, this character's daily routine breaks down in the hours before a sexual encounter in which she has an unexpected orgasm and fatally stabs her client with a pair of scissors. For 10 points, name this resident of an apartment at "23 quai du commerce, 1080 Brussels," the title character of a 1975 film by Chantal Akerman.
ANSWER: **Jeanne** **Dielman** [accept either underlined portion]
<Other Fine Arts>

20. **Karen Sanchez-Eppler has argued that an unusual object of this type inspired the name of a character who answers "spect I grow'd" when asked, "Do you know who made you?" One of these objects intended to represent "the God of things as they ought to be" became popular during the mind-cure movement of the early 20th century. Johnny Gruelle combined two James Whitcomb Riley poems to name a best-selling object of this type that was visually inspired by a minstrelsy-inspired one of these objects created by Florence Kate (*)** Upton in the 1890s. Examples of these objects include "topsy-turvy" ones designed to be flipped and a "charm" one called the Billiken. Prompts to point to one of these objects "that looks 'bad'" and "that looks like you" were central to an experiment on the effects of internalized racism run by Kenneth and Mamie Clark, which used ones with different hair and skin colors. For 10 points, name these objects of material culture which include the Kewpies and Raggedy Ann.

ANSWER: __doll__s [accept __topsy-turvy doll__s, __Billiken__s, __rag doll__s, __Raggedy Ann__, __Golliwogg__, __black doll__s, and __bisque doll__s; prompt on <u>toys</u> or <u>figurines</u>]

<American History>

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Bonuses

1. Attendees of a funeral procession take out machine guns from coffins and start mowing down anti-Semitic thugs, in a story titled for "How Things Were Done" in this city. For 10 points each:
[10] Identify this city, the setting of a 1931 short story collection in which several Jewish gangsters slaughter a rich merchant's cows and torch a police station.
ANSWER: **Odessa** (Those are Isaac Babel's *Odessa Tales*.)
[10] This pseudonymous Russian satirist described how she and other wealthy refugees fleeing the Bolsheviks were forced to haul their own coal aboard a steamer departing Odessa, in an episode of her autobiography *Memories: From Moscow to the Black Sea*.
ANSWER: **Teffi** [or Nadezhda Alexandrovna **Lokhvitskaya;** or Nadezhda Alexandrovna **Buchinskaya]**
[10] At the age of thirteen, Teffi visited this elderly author, who had brought a different war-torn Ukrainian city to life in his *Sevastopol Sketches*, to beg him not to kill off his character Prince Andrei Bolkonsky.
ANSWER: Leo **Tolstoy** [or Count Lev Nikolayevich **Tolstoy**]
<Short Fiction>

2. Zero-inflated Poisson models are a subclass of this general modeling approach that can also be used to determine the sex of species based on continuous variables like wing-length. For 10 points each:
[10] Name this class of models that allow for data to come from N-many independent distributions, such as zero-inflated count data.
ANSWER: N-**mixture model**s [do not accept "mixed models"]
[10] Zero-inflated negative binomial models can be used to model this variable with a latent variable denoted z. This variable is denoted by psi in models of it based on presence-absence data that incorporate detection probability.
ANSWER: probability of **occupancy** [do not accept anything else]
[10] The Tingley method uses probability of occupancy of these places to estimate density of individuals in a population. An ideal despotic model of these things arises due to boundary disputes between neighbors and owners of these areas of land that are continuously defended for resources.
ANSWER: **territory**
<Biology>

3. Geoffrey Leech articulated ten maxims of this phenomenon, including "approbation" and "opinion reticence," as part of his approach to "sociopragmatics." For 10 points each:
[10] Name this conversational phenomenon, which can be expressed using negative, positive, and "bald-on-record" strategies according to a study by Penelope Brown and Stephen Levinson.
ANSWER: **polite**ness [accept being **polite**, but do not accept or prompt on synonyms—they need the exact term]
[10] In books such as *Hand and Mind*, this American psycholinguist has argued that politeness is one of many social forces operating on the "inter-plane," and is therefore expressed through involuntary gestures via "growth points."
ANSWER: David **McNeill**
[10] McNeill is also known for collaborating with Roger Brown on a study arguing that "generic recall" of the beginnings and ends of words drives *this* four-word phenomenon of almost being able to remember a term. Hopefully it's not happening to you right now!
ANSWER: **tip-of-the-tongue** phenomenon [or **TOT**]
<Social Science>

4. For 10 points each—answer the following about contemporary German-Korean composer Unsuk Chin.
[10] Chin's only completed opera to date is based on the story of this character. David Del Tredici is best-known for neo-Romantic works about this character, including pieces titled *Final [this character]* and *Child [this character]*.
ANSWER: **Alice** [accept *Alice in Wonderland* or *Final Alice* or *Child Alice*]
[10] Chin has written several works for the Ensemble InterContemporain, which was founded by this French conductor and composer. He was the founding leader of the electronic music research institute IRCAM.
ANSWER: Pierre **Boulez** [boo-LEZZ]
[10] Chin won the Grawemeyer Award for a 2002 piece in this orchestral genre. Dmitri Shostakovich wrote two of these pieces for David Oistrakh.
ANSWER: **violin concerto**s [prompt on partial answer]
<Auditory Arts>

5. A poem by this author that ends by asking: "For are we not God's children both / Thou, little sandpiper, and I?" led Sarah Orne Jewett to nickname her "the sandpiper." For 10 points each:
[10] Name this wildly popular female poet in nineteenth century America, who rhapsodized about the islands off the coast of her native New Hampshire in collections such as *An Island Garden* and *Among the Isles of Shoals*.
ANSWER: Celia (Laighton) **Thaxter**
[10] This author chose the title "Land-locked" for Thaxter's first poem, which he published in *The Atlantic Monthly* without her permission. At least she fared better than Edgar Allan Poe, whom this poet proclaimed "three-fifths… genius and two-fifths sheer fudge."
ANSWER: James Russell **Lowell**
[10] Thaxter's cottage at Appledore Island attracted Longfellow, Whittier, and other members of this group of American poets, whose multiple nicknames reflect either the tendency of families to read them by the hearth or for children to be asked to recite them in class.
ANSWER: **Fireside** poets [or **Household** poets; or **schoolroom** poets]
<Poetry>

6. Kate Manne's *Down Girl* uses the "testimonial" form of this idea to analyse the misogyny involved in the handling of "he said"/"she said" scenarios. For 10 points each:
[10] Give this term introduced in a namesake book by Miranda Fricker. The testimonial form of this situation arises from biases in the "economy of incredulity," while its "hermeneutical" form is due to structural issues in society that prevent marginalised groups from intelligibly processing their experiences.
ANSWER: **epistemic injustice** [prompt on injustice]
[10] A common account of testimony relies on a "norm" by which one ought to assert a proposition only if they stand in *this* relation to the subject. Timothy Williamson advocated for this kind of norm in a book titled for this state *and its Limits*.
ANSWER: **knowledge** [accept **knowledge norm** or *Knowledge and its Limits*]
[10] Hume argued that no matter how reliable a testimony one receives, it is never reasonable to believe that one of *these* violations of the laws of nature has actually occurred.
ANSWER: **miracle**s
<Philosophy>

7. The libel suits of David Rousset and Victor Kravchenko against *Les Lettres Françaises* are discussed in Tony Judt's book on these people from 1944–1956, *Past Imperfect*. For 10 points each:
[10] Name these people whose post-war admiration of Marxism is the subject of Raymond Aron's book on the Opium of [this group]." Julien Benda had earlier attacked fascists like Charles Maurras in a book titled for "The Treason of [this group]."
ANSWER: (French) **intellectual**s [or **intellectuel**s; accept *clerc*s]
[10] Michael Christofferson's *French Intellectuals Against the Left* disputes the common belief that the popularity of this book in France catalyzed the break of the "New Philosophers" with Marxism. This three-volume Aleksandr Solzhenitsyn book describes the Soviet system of forced labor.
ANSWER: *Gulag Archipelago*
[10] Julien Benda and Paul Eluard were among the French attendees of a 1948 Soviet-sponsored "Congress of Intellectuals" aimed at this goal. The USSR promoted its foreign policy goals through a council named for this goal headed by Frédéric Joliot-Curie.
ANSWER: world **peace**
<European History>

8. Many measurements of stellar magnetic fields rely on this effect. For 10 points each:
[10] Name this effect in which a spectral line is split into multiple components by an external magnetic field. Its analogue for splitting by electric fields is the Stark effect.
ANSWER: **Zeeman** effect
[10] An alternative method for measuring stellar magnetic fields relies on this effect, in which a magnetic field rotates and alters the strength of the polarization from resonance line scattering. It is named for a German physicist who explained it using a semi-classical model of an atomic damped harmonic oscillator.
ANSWER: **Hanle** effect
[10] The Hanle effect rotates the polarization in the same sense as this motion, whose frequency is given by the magnetic field strength times the gyromagnetic ratio.
ANSWER: **Larmor precession** [prompt on precession]
<Physics>

9. For 10 points each—answer the following about the sociology and anthropology of art:
[10] Alfred Gell used "abductive" reasoning to explain how art can have *this* property. Gell's book on *Art and [this property]* proposes that artworks constitute an "index" that becomes a "locus" embedded in a sociocultural "nexus."
ANSWER: **agency** [accept word forms; accept ***Art and Agency***]
[10] In a book titled for *these* constructs, American sociologist Howard S. Becker emphasized the importance of unsung actors like stagehands and paper suppliers. The institutional theory of art holds that one of these "atmosphere[s] of artistic theory" is required to judge an object as "art."
ANSWER: **artworld**s
[10] Franz Boas kick-started anglophone work on the anthropology of art with a 1927 survey of art titled for *this* adjective. Earlier, Boas had developed his cultural relativism in a book titled for the "mind" of this kind of "man."
ANSWER: **primitive** [accept ***Primitive Art*** or The ***Mind of Primitive Man***]
<Other Academic>

10. Khal Torabully's work on "coolitude" discusses this taboo's role in the identity of the millions of Indians transported overseas via the 19th-century indenture system. For 10 points each:
[10] Give the Hindi name of this taboo. The colonial Cellular Jail was built on the Andaman Islands to force upper-caste political prisoners to break this taboo, which prohibited sea travel on pains of being cut off from the cycle of reincarnation.
ANSWER: **kala pani** [prompt on Black Waters]
[10] Khal Torabully is from this island country, where the plurality of Indian indentured laborers were sent to work on sugar plantations. The dodo was hunted to extinction on this island.
ANSWER: **Mauritius**
[10] Fears over being forced to violate kala pani were one motivation of the Indian soldiers who rebelled in the Barrackpore mutiny during one of these wars. The losers of the first of these wars were forced to pay a massive indemnity by the Treaty of Yandabo.
ANSWER: **Anglo–Burmese** Wars
<World History>

11. Among the Kongo people, these specialists make objects called *nkisi* to house ancestor spirits. For 10 points each:
[10] Give this general Bantu term, or the specific Zulu word, for traditional healers who also communicate with the Other World. These people were once referred to as "witch doctors."
ANSWER: ba**nganga** [or **sangoma**; or **n'anga** or **nyanga**]
[10] Banganga typically perform this kind of practice to diagnose illnesses. The Yoruba [YO-roo-bah] religion *Ifá* is named metonymously for this practice, which is conducted using a chain called *Opele* or with kola nuts.
ANSWER: **divination**
[10] In this country, the term *nganga* was adopted as the name of an altar in the religion of Palo. Yoruba-derived religious and cultural elements originating in this country are called Lucumí.
ANSWER: Republic of **Cuba** [or República de **Cuba**]
<Religion>

12. Lonnie Frisbee, the ex-hippie founder of the communal House of Miracles, was a key early figurehead in this religious organization. For 10 points each:
[10] Name this religious organization that was central to the "Jesus movement" of the 1960s and 70s after Chuck Smith founded its original location at Costa Mesa.
ANSWER: **Calvary Chapel** [or **Calvary Chapel** Costa Mesa]
[10] Smith was originally ordained by the International Church of the Foursquare Gospel, an evangelical denomination founded by this religious leader, who preached at the Angelus Temple and notoriously claimed she was kidnapped in 1926 and held hostage in Mexico.
ANSWER: Aimee Semple **McPherson** [or **Sister Aimee**]
[10] Both the Calvary Chapel and the Foursquare Gospel movements were based out of the southern part of this state, which also experienced the Azusa Street Revival in the early twentieth century.
ANSWER: **California**
<American History>

13. Late in life, this painter made a number of paintings of trout caught on fishing hooks, perhaps symbolizing his exile. For 10 points each:
[10] Name this artist who provoked a firestorm with a painting of two prostitutes sprawled under a tree on the banks of the Seine. His many self-portraits include the self-assured *Man with a Pipe* and the crazed *The Desperate Man*.
ANSWER: (Jean Désiré) Gustave **Courbet** [koor-BAY]
[10] This art historian examined Courbet's revolutionary politics in the books *Image of the People* and *The Absolute Bourgeois*. After resituating Manet in an urban context in the book *The Painting of Modern Life*, this Marxist wrote a monumental collection of "Episodes from a History of Modernism" called *Farewell to an Idea*.
ANSWER: T.J. **Clark** [or Timothy James **Clark**]
[10] Courbet's work is usually given *this* stylistic label, which describes the unvarnished depiction of everyday life in paintings like Millet's [mee-LEH's] *The Gleaners* and Daumier's ["dome"-YAY's] *The Third Class Carriage*.
ANSWER: **Realism** [or **Realist**]
<Visual Arts>

14. Name these modes of sediment transport by wind, for 10 points each:
[10] Roughly 75% of eolian transport of sediments takes place through this leaping motion of sand grains along a parabolic trajectory in the direction of the wind.
ANSWER: **saltation**
[10] About 25% of eolian transport of sediments occurs through this very slow movement of coarse grains at the base of the saltation layer. It shares its name with aseismic motion along faults.
ANSWER: surface **creep**
[10] A small amount of sediment transport occurs through this process, in which a saltating grain's fall and impact against the bed splashes of order ten grains out of the bed in low hops in nearly all directions. Physicist Pierre-Gilles de Gennes ["Pierre" zheel duh zhen] used this term for a type of thermal motion.
ANSWER: **reptation**
<Other Science>

15. The 15th-century humanist Giovanni Pontano examined the use of this literary device by Virgil in the dialogue *Actius*, which coined the name for this technique. For 10 points each:

[10] Virgil's phrase "Sale Saxa Sonabant" is an example of what repetition of the same consonant at the start of successive words?

ANSWER: **alliteration**

[10] Pontano also examined the doubly-alliterative phrase "Multa Munita Virum Vi" in this poem, whose first book begins by addressing Venus as the "mother of Rome," and later declares that "nothing can be born of nothing, nothing can be resolved into nothing."

ANSWER: *__De rerum natura__* [or *__On the Nature of Things__*] (by Lucretius)

[10] Ancient Roman writers and modern classicists alike mocked the excessively alliterative line "o tite, tute, tati, tibi tanta, tyranne, tulisti!" from this 2nd-century BC epic poem by Quintus Ennius, the preeminent verse narrative about Roman history until it was supplanted by Virgil's *Aeneid*.

ANSWER: *__Annales__* [accept *__Annals__*]

<Miscellaneous Lit>

16. This package of legislation amended Section 230 of the Communications Decency Act to eliminate online services' immunity from sex trafficking laws. For 10 points each:

[10] Name this hyphenated package of legislation introduced by Senator Rob Portman and signed into law in April 2018.

ANSWER: **FOSTA-SESTA** or **SESTA-FOSTA** [or **Stop Enabling Sex Traffickers Act** and **Allow States and Victims to Fight Online Sex Trafficking Act**; prompt on incomplete answers]

[10] Within days of FOSTA-SESTA's passage, this San Francisco-based American classifieds website voluntarily shut down its "Personals" section.

ANSWER: **Craigslist**.org

[10] FOSTA-SESTA was criticized by this digital rights group for its potential to discourage voluntary moderation of websites. This organization was founded in 1990 by Mitch Kapor, John Gilmore, and the Grateful Dead lyricist John Perry Barlow.

ANSWER: **Electronic Frontier Foundation** [or **EFF**]

<Mythology/Geography/Current Events>

17. For 10 points each—answer the following about changing tastes in Chinese ceramic production:

[10] Song dynasty Rǔ and Guān wares deliberately emphasized *this* pattern of fractures under the piece's glaze. The "double" form of this pattern in Gē [guh] ware was dubbed "gold thread and iron wire."

ANSWER: **crackle** [accept word forms like **crackling**; accept **crazing** or word forms like **craze**d]

[10] Those pottery styles were made in earthenware and stoneware, which are contrasted with *this* tough, translucent type of ceramic, which requires extremely high temperatures to make. Since China was the first country to develop this kind of ceramic, it's often just called "China."

ANSWER: **porcelain**

[10] Starting under Míng Xuāndé [sh'wen-duh], Chinese ceramics were often decorated using this technique, in which thin wires of metal are used to enclose decorative pieces of enamel on the surface of the piece. A derivative of this French-language word was used to describe the painting style of Émile Bernard and Paul Gauguin [go-GAN].

ANSWER: **cloisonné** [clwah-zoh-NAY] [accept **cloisonnism**e]

<Other Fine Arts>

18. In its parody of the New York art scene, this novel reproduces a four-and-a-half page rambling monologue taped by the artist Stanley Kastle, who at its end realizes that "men over fifty can't stop talking." For 10 points each:
[10] Name this novel by Rachel Kushner that opens with Reno crashing her motorcycle trying to photograph the tracks on the sand she leaves on the Bonneville Salt Flats.
ANSWER: The *__Flamethrowers__*
[10] In *The Flamethrowers*, Reno idolizes the racer Flip Farmer and his record-breaking car the *Victory of Samothrace*, in an obvious reference to Filippo Marinetti's manifesto for this violence and speed-obsessed art movement.
ANSWER: **Futurism** [or word forms, such as **Futurist**]
[10] A memorable set piece in *The Flamethrowers*, the New York City blackout of 1977, was inspired by this novel's description of the Northeast power outage of 1965, which strikes just days after its waste management executive protagonist first meets his unfaithful wife Marian.
ANSWER: *__Underworld__* (by Don DeLillo)
<Long Fiction>

19. A poem describes how the freeing of people in this status was accompanied by the abolishment of mysterious boundary markers called horoi. For 10 points each:
[10] Name this status of the Athenians whom Solon boasts of bringing back from foreign places in that fragment of his poetry. The Solonian reform that freed these people is usually called the *Seisach·theia*.
ANSWER: **debt slave**ry [prompt on partial answers like being in a debt or slavery]
[10] That Solon poem survives through its quotation in *Constitution of the Athenians*, a work usually attributed to this author who defended natural slavery in his *Politics*.
ANSWER: **Aristotle**
[10] Solon's cancellation of debts freed a class of sharecroppers named for this fraction, presumably because they either kept this fraction of their produce or paid it to their creditors.
ANSWER: **one-sixth** [accept *__hektemoroi__*]
<European History>

20. This model allows adsorbate volume, relative to monolayer coverage volume, to grow indefinitely. For 10 points each:
[10] Name this adsorption equation that assumes that the first adsorbed layer can act as a substrate for further absorption. It is most accurate for gases such as nitrogen adsorbing onto activated carbon.
ANSWER: **BET** isotherm [or **Brunauer–Emmett–Teller** isotherm]
[10] When this parameter for desorption is large, the BET isotherm approximates the adsorbed volume as proportional to "one over one minus the reduced pressure" of the adsorbate. The van't Hoff equation describes the relationship between log equilibrium constant, temperature, and this quantity for a process.
ANSWER: change in **enthalpy**
[10] This model for surface-catalyzed reaction kinetics assumes that the adsorbate can react directly with gas-phase molecules, without the need for both species to be adsorbed. At high concentrations of the adsorbing gas, the rate law is zero-order in the adsorbate but first-order in the non-adsorbing gas.
ANSWER: **Eley–Rideal** mechanism
<Chemistry>