

2020 WORKSHOP: We Oughtta pRopose aKronymS aHead Of Ptime

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Packet 8

Tossups

1. **In *On Free Choice of the Will*, Augustine provides four hypotheses for the creation of *these things*. A meditation on Achilles in the *Iliad* gives its name to an argument for the simplicity and unity of these things. Several articles of the *Summa Theologica* ask about the “separated state” of this entity. St. Bonaventure maintained that these entities could only be created through direct action of God because of their (*) incorruptibility. A treatise on these things includes a fivefold hierarchy whose members include “locomotive,” “appetitive” and “nutritive.” Aristotle’s treatise on this thing coined the metaphor of the tablet without writing. Both Aquinas and Aristotle considered this thing to be the “form” and “first actuality” of a living body. For 10 points, name this immaterial part of a person.**

ANSWER: souls [or anima or psyche; prompt on minds] <MB>

2. **This is the best-known animal parasitized by *Ophryocystis elektroscirrha*, which prevents effective large-scale captive rearing. The ratio of females has been steadily decreasing across all known colonies of this species in a trend that may be due to increased oyamel logging. Longer-lived “supergenerations” of this insect travel southward to a namesake Biosphere Reserve in the Volcanic Belt. High levels of salicylic acid in another insect showed that it had a (*) Müllerian, not Batesian, relationship with this insect, whose bitter taste derives from cardiac glycosides. This insect winters in the fir forests of central Mexico but lays its eggs on the only food source for its larvae—the milkweed plant. For 10 points, name this orange and black migratory butterfly.**

ANSWER: monarch butterfly [or Danaus plexippus; prompt on Danaus; prompt on milkweed butterfly before mentioned; prompt on butterfly or Lepidoptera before the end] <GH>

3. **In the early 20th century, a black community settled at Amber Valley in this province to escape segregation in Oklahoma. A strictly enforced Rat Control Zone on this province’s borders made it one of the only areas in the world completely free of rats. This province’s Head-Smashed-In and Wood Buffalo Parks were historically important to the bison hunted by its (*) Blackfoot people. The Elbow and Bow Rivers flooded this province’s largest city in 2013. That flood was this province’s most costly natural disaster until a 2016 wildfire destroyed much of Fort McMurray. Northern Gateway and Keystone XL are pipeline projects intended to export bitumen from tar sands in this province. For 10 points, name this Canadian province containing 5 National Parks, including Jasper and Banff.**

ANSWER: Alberta <KF>

4. **This event set a maximum of one godfather and one godmother for each child, ending the tradition of having many godparents. In the “Articles Concerning Reform”, delegates to this event sought to create a law code independent from German influence. Marcel Lefebvre was a founding figure in a sect that often takes its name from this event. This event was also disrupted when a plague forced it to move to (*) Bologna. This event resulted in the creation of a List of Banned Books and confirmed the Vulgate as a canonical translation of the Bible. This council upheld the seven sacraments, and Pope Paul III called this council in order to respond to the spread of Protestantism. For 10 points, name this church council that started the counter-reformation.**

ANSWER: Council of Trent [or Concilium Tridentinum] <GC>

5. One of these works dubbed “Five Sisters” was re-dedicated as a memorial to British Empire women who died during the First World War. One component of these works was first made in its “plate” variety, before the adoption of its “bar” type. Several relics are carried by a penitent King Louis IX in one of these artworks found in Sainte-Chapelle. The “lancet” type of these works lack mullions and (*) tracery. One of these works titled “Notre-Dame de la Belle Verrière” originated the name of the color “Chartres Blue.” Three large, circular examples of these works survived a catastrophic April 2019 fire in Paris despite being held together by strips of lead. For 10 points, name these artworks that often take a “rose” shape in Medieval cathedrals.

ANSWER: windows [accept stained glass; prompt on partial answers; accept more specific answers like rose windows; accept piercings or openings] <CS>

6. A man in this play lives with a strongbox without a lock in a “laughably small” room. A character in this play remarks that he, unlike another character, doesn’t “have one wife, two daughters, two cats, and two parakeets.” That character in this play says that he thought he was “h-o-m-o-s-e-x-u-a-l” as a teenager, although he resents the kimono-wearing drag queen he lives next to. He rejects the love of his vile landlady by trying to (*) poison her black dog with hamburger meat. At the end of this play, one character holds a knife on which another man stabs himself as they fight over a bench. For 10 points, name this Edward Albee play in which Jerry accosts Peter in Central Park after returning from the title location.

ANSWER: *The Zoo Story* <GC>

7. The NIST [“nisst”] standard for this resource was updated to 800-90A after finding out that the NSA put a backdoor in the Dual_EC algorithm for producing it. One of the two files used to access this resource in Unix systems is prefixed with a “u” and connects hardware like drivers to the /dev [“slash DEV”] directory. This resource is exchanged during a TLS handshake to generate the master secret. The (*) key-gen program that comes with PuTTY can generate this resource from user input like mouse movement, though it is more typically created by converting thermal noise or quantum fluctuations into bits of entropy. For 10 points, bits that are unpredictably zero or one constitute what resource, which is used to simulate chance?

ANSWER: random numbers [or randomness; accept true random numbers, pseudorandom numbers, or cryptographic seed values; accept entropy before mentioned; prompt on cryptographic keys or encrypted data before mentioned with “What resource is required to use that?”] <GH>

8. At the end of a novel titled for this character, a group of girls sprout feathers and fly away as owls. This character is nicknamed “the Duck” because when her father threw her into the ocean, she was rescued by purple-striped ducks. One translator chose to describe this character’s hands as “muscular” in a scene where she carries a key. Twelve (*) hanged maids partly narrate a Margaret Atwood novel titled for this character. Every night, this character undid her weaving on a funeral shroud for her father-in-law, Laertes. This character’s husband fires an arrow through twelve axes, after which he kills the suitors of this mother of Telemachus. For 10 points, name this wife of Odysseus.

ANSWER: Penelope [prompt on *The Penelopiad*] <CMA>

9. In one war, this country employed the Russian exiles Nicholas Ern and Ivan Belaieff to design forts and was opposed by forces led by the German Hans Kundt. Royal Dutch Shell backed this country in that war with its Standard Oil-supported northern neighbor. A 19th century leader of this country established a secret police called the *pyragues*, or hairy-feet, that would be re-established in the (*) 1960s. This country entered a prolonged military buildup under its presidents, Carlos Lopez and Gaspar de Francia. A prolonged siege captured this country's fort of Humaita in a war in which this country's president, Francisco Solano Lopez, was killed. Spies used the Guarani language to communicate in—for 10 points—what landlocked South American country that won the Chaco War and lost the War of the Triple Alliance?

ANSWER: Republic of Paraguay <AK>

10. Johannes C. de Moor has posited a connection between this holiday and the Ugaritic New Year. Modern celebrants of this holiday often use bamboo or wood to make a *s'khach* [skakh]. This holiday is sometimes celebrated with music and dance to commemorate a water-drawing ceremony. At the end of this holiday, a white robe is put on to sing the prayer (*) *geshem*. Just after this holiday, the day of *Shemini Atzeret* concludes with the “rewinding” of the Torah. This holiday begins five days after Yom Kippur and, unlike Passover, it includes six days of *Chol haMo-ed*. Four Species including the *lulav* and *etrog* are waved around during this holiday. For 10 points, name this harvest festival during which Jews eat outside in wooden booths.

ANSWER: Sukkot [or Sukkos or Sukkoth; prompt on answers like Feast of Booths or Tabernacles; accept Chag haAsif; prompt on answers like Harvest Festival or Festival of Ingathering] <WG>

11. An opera in this language features a thirty-second-note leitmotif that starts with four notes ascending chromatically and then repeats the highest pitch five more times. The title character of that opera in this language is betrayed by a Prince in favor of a “Foreign Princess.” An opera in this language uses “speech-melody” to depict a stepmother who drowns the title woman's child in a frozen river. A witch allows the title character of an opera in this language to become (*) human as long as she stays mute. An 1866 opera in this language typifies musical nationalism by including dances like the *furiant*. The title water nymph of an opera in this language sings a “Song to the Moon.” *Rusalka* and *The Bartered Bride* are in—for 10 points—what language of operas by Bedřich Smetana and Antonín Dvořák?

ANSWER: Czech [or čeština; accept Bohemian] (The second opera third is Leoš Janáček's *Jenůfa*.) <CS>

12. Upon mixture, varying the identity of one of these substances causes Reichardt's dye to change color. A model combining the SASA approach and the Poisson-Boltzmann equation is commonly used in continuum models of these substances in molecular dynamics. Quaternary ammonium compounds are used in the first three generations of the (*) “deep eutectic” type of these substances. The polarity of these substances roughly correlates with their dielectric constant. Examples of these substances with low boiling points include ethyl acetate and hexane, both of which can be removed using a rotovap. S_N2 [“S-N-two”] reactions are favored in the presence of the polar aprotic types of these substances, such as acetone. For 10 points, name these substances that dissolve solutes.

ANSWER: solvents [prompt on elvents] <KY>

13. This musician played with a big band featuring a French horn and euphonium on an album that includes the tune “Blues Minor.” This instrumentalist covered “My One and Only Love”, “Lush Life”, and other jazz ballads on an album this man recorded with singer Johnny Hartman two years after the album *Africa/Brass*. This musician used a timpani roll to open the closing track (*) “Psalm” on a four-track album whose title is chanted on its opening track, “Acknowledgment.” This musician's “classic” quartet included Elvin Jones on drums and McCoy Tyner on piano, and he played tenor on *Kind of Blue*. In 1965, this man married pianist and harpist Alice McLeod. For 10 points, what jazz saxophonist created *A Love Supreme*?

ANSWER: John (William) Coltrane <VD>

14. **Joseph Vogt led the so-called “Mainz school” of studying these people, which was refuted in a book by Moses Finley whose title pairs these people with “modern ideology”. In one incident, 400 of these people were killed for failing to stop a murder. An inheritance called the *statuliber* was sometimes granted to these people, one of whom named (*) Eunus thought himself to be a prophet of Atargatis. These people were brought to the trading center of Delos by Cilician pirates. While wearing the *pileus* hat, these people drank wine and celebrated during the festival of Saturnalia. A rebellion of these people began at the school of Capua and ended with its leaders being crucified along the Appian Way. Spartacus led a rebellion of—for 10 points—what servile class of Rome?**
ANSWER: Roman **slaves** [or **servus** or **servi**; prompt on **gladiator** with “What larger class of people were gladiators?”; prompt on **prophet** before mention] <GE>

15. *Description acceptable.* **James Birren, one of the pioneers of the study of this process, divided it into primary, secondary, and tertiary forms. Elaine Cumming and William Earl Henry later developed nine postulates in arguing that this process is defined by “disengagement.” In contrast to most of his earlier writings, G. Stanley Hall’s final academic book focused on this process. This process involves a conflict between (*) “ego integrity” and despair, according to Erik Erikson’s eight-stage model of development. Sigmund Freud claimed that it wasn’t productive to give psychoanalytic treatment to people who had already undergone this process, because this process made their minds lose elasticity. For 10 points, name this process studied by gerontologists.**
ANSWER: **aging** [or equivalent descriptive answers like **getting older**, **being old**, **senescence** or **senescing** etc.] <WHM>

16. **In the second chapter of this book, the narrator describes a fire in a movie theater during which the police “forbade people to rescue those locked inside.” In that same chapter of this book, the narrator describes unsuccessfully trying to talk to God at night. That protagonist of this book listens to music like Kim Wilde’s “Kids in America” as rebellion and dreams of being a prophet as a child. This book’s protagonist designs an (*) amusement park as part of her college thesis, and later divorces her husband Reza. Earlier in this book, the protagonist’s parents send her to boarding school in Vienna after missiles strike her hometown. A section titled “The Veil” opens—for 10 points—what autobiographical graphic novel about Marjane Satrapi’s time growing up during the Iranian revolution?**
ANSWER: **Persepolis** <WG>

17. **According to Josephus, a man with this name replaced Ananus after the latter was removed for executing the brother of another man with this given name. Colossians contains the only known reference to a man with this name who took the epithet Justus. According to Celsus, another man with this name was the son of the soldier Pantera. Several legends depict that man with this name blowing life into a (*) clay bird. The acronym “*ichthys*” and the initialism “I·N·R·I” both refer to a man with this name, who has another epithet often written with the monogram chi-rho. In another account, that man with this name is called Emmanuel, since he is claimed to fulfill Isaiah’s prophecy of a virgin birth. For 10 points, give this name of a “King of the Jews” from Nazareth.**
ANSWER: **Jesus** [or **Yeshua**; or **Iesous**; accept **Yeshu**; accept **Yehoshua** or **Joshua**; accept **Jesus** Justus; accept **Jesus** (son of) Damneus; accept **Jesus** Christ] <GH>

18. An epidemic of failures among aluminum-containing examples of this type of device during the 2000s was dubbed this device's "plague." Tantalum and niobium pentoxide are frequently used to create high-efficiency types of these devices. In the hydraulic analogy, these circuit elements are analogous to accumulators. Putting one of these devices between two circuits can prevent the passage of (*) direct current, since these devices act as high-pass filters in series. Inductors and these components have non-zero reactance. In the simplest type of these devices, their namesake quantity is proportional to area over the distance between two parallel plates. For 10 points, name these dielectric-containing circuit components that store charge.

ANSWER: capacitors <CM>

19. A play inspired by this author's work ends with Conrad asking the audience to "Stop the fucking play." In another play inspired by this author, Cassandra uses a voodoo doll on another character after the cast attends a party dressed as Snow White and the Seven Dwarves. A doctor created by this author performs a botched surgery while drunk on a woman who survived a fire, and later delivers news that the Baron was killed in a duel with Soleni over (*) Irina's hand. This author, the inspiration of a play by Christopher Durang, wrote a play in which Nina Zarechnaya performs an experimental symbolist play by Konstantin, who later shoots himself and the title animal. For 10 points, name this playwright of *Three Sisters* and *The Seagull*.

ANSWER: Anton Chekhov (The first play mentioned is Aaron Posner's *Stupid Fucking Bird*) <GE>

20. One commander during this war declared "The enemy covets our old and glorious hulks" prior to a battle which also led to the Sampson-Schley controversy. Charles Sigsbee won a battle during this war after being exonerated by a Court of Inquiry investigating the causes of this conflict. The losing commander in this war's most notable naval battle had earlier served in the Chincha (*) Islands War. That commander in this war kept his ships near the arsenal at Cavite to preserve them in case of sinking. The command "You may fire when ready, Gridley" was given by a winning commander during this war from his flagship *Olympia*. George Dewey won the Battle of Manila Bay during—for 10 points—what war that began after the sinking in Havana harbor of *USS Maine*?

ANSWER: Spanish–American War [accept *Guerra Hispano-Americana*] <BH>

2020 WORKSHOP

Packet 8

Bonuses

1. One type of this tissue prevents the differentiation of an adjacent quiescent center that acts as a reservoir of cells.

For 10 points each:

[10] Name this type of tissue whose arrangement is governed by the tunica-carpus model. WUSCHEL and CLAVATA form a feedback loop regulating the rate of cell division in this tissue.

ANSWER: **meristems** [or **meristematic**; accept **primary meristem**, root **apical meristem**, or shoot **apical meristem**; accept, but do not reveal **floral meristem**; prompt on **cambium**]

[10] The expression of LEAFY and APETALA1 triggers the differentiation of these plant reproductive organs from shoot apical meristem. This organ contains stamens, pistils and petals.

ANSWER: **flowers** [accept **floral meristem**]

[10] Floral development is governed by the expression of three different homeotic genes in this model. This model was first described in *Arabidopsis thaliana* and is used to explain the formation of whorls.

ANSWER: **ABC** model <RRP>

2. Answer the following about convergences between Indian and Western philosophy, for 10 points each:

[10] The Vaisheshika school of Indian philosophy was founded by Kanada, whose name literally means “eater of [these things].” The Greek philosopher Democritus based his physics on these “uncuttable” particles.

ANSWER: **atoms**

[10] Dvaita Vedanta has been seen as arguing for *this* philosophical concept, which Lucretius’s *De Rerum Natura* claims is created via the *clinamen*, or “swerve,” of atoms.

ANSWER: **free will**

[10] Arthur Schopenhauer proposed an ethics based on *this* phrase from the *Chandogya Upanishad*. This phrase situates the primordial Self within Brahman; please give the original Sanskrit.

ANSWER: ***tat tvam asi*** (“Thou art that.”) <VS>

3. Vittorio Monti’s most famous piece is based on music from this country. For 10 points each:

[10] Name this country that inspired a set of pieces for piano duet by Johannes Brahms. One genre of music from this country is divided into slow *lassan* [LAH-shan] and fast *friska* [FRISH-kuh] sections.

ANSWER: **Hungary** [or **Magyarország**; accept **Hungarian Dances** or **Ungarische Tänze**] (Monti’s piece is a *csárdás*.)

[10] A “Hungarian March” appears in *this* “dramatic legend” for soloists, chorus, and orchestra. This work also includes a “Minuet of the Will-o’-the-Wisps” and a “Dance of the Sylphs.”

ANSWER: ***The Damnation of Faust*** [or ***La Damnation de Faust***; do not accept or prompt on partial answer] (by Hector Berlioz)

[10] Although Monti, Brahms, and Berlioz were not Hungarian, *this* composer *was*. This twentieth-century composer wrote a *Concerto for Orchestra* as well as *Music for Strings, Percussion, and Celesta*.

ANSWER: Béla (Viktor János) **Bartók** [accept in either order] <EL>

4. One book accuses these “liars” and “imitators” of glorifying tyranny. For 10 points each:

[10] Name these people. Because they deal solely in imitation, they are unable to capture the Form of the Good, and thus are banished from the ideal city.

ANSWER: **poets** [or **poietes**]

[10] In this long Platonic dialogue, Socrates argues with men like Thrasymachus and Glaucon about the formation of Kallipolis.

ANSWER: *The **Republic*** [accept ***Politeia***; accept ***Res Publica***]

[10] Socrates tells his followers not to engage in *this* lowest form of dialogue, which is often contrasted with the dialectic. This Sophist process makes self-interest, rather than truth, its first priority.

ANSWER: **eristic** [or the **eristical** method] <AR>

5. An urban legend spread by televangelists in the 1980s claimed that a heat-resistant microphone lowered into this project’s site had recorded the screams of the damned. For 10 points each:

[10] Name this project named for a Russian peninsula whose bottom is the deepest point on Earth.

ANSWER: **Kola** Superdeep **Borehole** [accept ***Kolskaya*** ***Sverhglubokaya*** ***Skvazhina***]

[10] The Kola Superdeep Borehole is near this port on the Barents Sea, the largest city north of the Arctic Circle.

ANSWER: **Murmansk**

[10] In terms of depth from the surface, the Kola Superdeep Borehole was superseded in 2011 by a borehole on this island in the Russian Far East just north of Hokkaido. This island, which is home to many Ainu people, separates the Sea of Okhotsk and the Sea of Japan.

ANSWER: **Sakhalin** Island <JM, European Geo>

6. In 2011 solicitor general Neal Katyal issued a formal “admission of error” in this case after re-examination of the Ringle Report. For 10 points each:

[10] Name the U.S. Supreme Court case which involved a man who underwent plastic surgery to avoid the provisions of Civilian Exclusion Order No. 34. This case challenged the constitutionality of Executive Order 9066.

ANSWER: ***Korematsu v. United States***

[10] Korematsu was returned to a camp in Topaz, Utah after the *Korematsu* decision upheld the legality of this practice, which relocated people to locations like Manzanar.

ANSWER: the **internment** of **Japanese-Americans** [accept **Japanese exclusion** or **Japanese relocation**]

[10] This other court decision was handed down the same day as *Korematsu*. In this decision, the court ruled that the government could not detain a citizen who was determined to be “decidedly loyal” to the U.S.

ANSWER: *Ex parte* **Endo** <CM>

7. A Canadian artist with this surname combined painting and sewing in works of “femmeage” and co-organized the installation *Womanhouse*. For 10 points each:

[10] Give this surname, shared by an art historian who included influential papers like “On Some Problems in the Semiotics of Visual Art” in a collected-essays series with simple titles like *Romanesque Art* and *Modern Art*.

ANSWER: **Schapiro** (Meyer Schapiro and Miriam Schapiro)

[10] Along with Miriam Schapiro, this artist helped to organize *Womanhouse*. Her installation *The Dinner Party* occupies a room in the Brooklyn Museum.

ANSWER: Judy **Chicago** [or Judith Sylvia **Cohen**]

[10] Chicago created an *International Honor* one of *these* objects whose triangles represent different women from around the world. Faith Ringgold tells stories using the “patchwork” variety of these textile objects.

ANSWER: **quilts** [accept more specific answers like **story quilts**] <EF>

8. This historical ruler has been identified with the “two-horned” Quranic figure Dhul-Qarnayn. For 10 points each:
[10] Name this protagonist of a Greek-language “romance” that was popular throughout the pre-Islamic Arab world. The Cave Surah recounts the construction of his namesake “gates.”

ANSWER: **Alexander** the Great [or al-**Iskandar**; or **Sikandar**; or **Alexander** III of Macedon; or **Alexandros** ho Megas; or **Alexandros** Gho Makedon; accept **Alexander** Romance; accept Gates of **Alexander**]

[10] The Gates of Alexander were supposedly built to keep out *these* peoples, who were sometimes identified with the Mongols or the Scythians. These peoples will break through the gates on Judgement Day.

ANSWER: **Gog** AND **Magog** [or **Yajuj** AND **Majuj**; prompt on answers naming only one part]

[10] Al-Khidr accompanies Alexander through the Land of Darkness in search of *this* location, which al-Khidr later drinks from to become immortal. Juan Ponce de León was supposedly told that this mythical place was in Bimini.

ANSWER: **Fountain** of **Youth** [accept any answer describing the **Water** of **Life**] <GH>

9. This poem opens by stating that “Razors pain you; / Rivers are damp.” For 10 points each:

[10] Name this 8-line poem that ends by proclaiming “Gas smells awful; You might as well live.”

ANSWER: “**Resumé**”

[10] “Resumé” is a poem by this woman, a member of the Algonquin Round Table who wrote “Men seldom make passes / At girls who wear glasses” in “News Item.”

ANSWER: Dorothy **Parker** [or Dorothy **Rothschild**]

[10] Parker’s short story about the jealous mother Mrs. Ewing shares its title with, and was published three weeks before, this Vladimir Nabokov novel about a pedophile.

ANSWER: **Lolita** <WG>

10. One leader attempted to culturally integrate this ethnic group under Plan Perquenco. For 10 points each:

[10] Name this group whose communal lands around the town of Temuco and the Bio-Bio river were privatized under a right-wing dictatorship.

ANSWER: **Mapuche** [accept **Araucanians**, **Wallmapu**]

[10] That expropriation of Mapuche lands took place under this leader of Chile who overthrew the Marxist government of Salvador Allende in a 1973 coup.

ANSWER: Augusto **Pinochet** Ugarte

[10] This Chilean leader formally issued an apology to the Mapuche in 2017. This socialist leader of the Concertacion coalition has alternated twice in power with the conservative Sebastián Piñera.

ANSWER: Michelle **Bachelet** Jeria <JM>

11. Although this idea’s formulator originally explained it using a gamma-ray microscope, it actually has nothing to do with the observer effect; an analogous result to this idea holds in Fourier analysis. For 10 points each:

[10] Name this principle that for certain pairs of observables, like position and momentum, puts a positive constant lower bound on the product of their standard deviations.

ANSWER: (Heisenberg) **uncertainty** principle [or **uncertainty** relation]

[10] Time and energy are conjugate variables and so have an uncertainty relation, which bounds the lifetime of these particles that can’t be observed but still mediate interactions. These particles produce a force in the Casimir effect.

ANSWER: **virtual** particles [accept **virtual** photons]

[10] Unusually, no uncertainty principle holds for the position and momentum operators in this system, due to position having a finite range. This system adds a periodic boundary condition to the particle in a box.

ANSWER: **particle in a ring** <GH>

12. One member of this movement, Patricia Hill Collins, introduced the term “outsider-within.” For 10 points each:
[10] Collins titled her first major work for the “thought” of this two-word movement. A key early organization in this movement was the Combahee River Collective.

ANSWER: **black feminism** [or **Black Feminist Thought**; accept **black feminist** lesbianism or **black feminist** socialism; prompt on partial answers that do not contain the phrase “black feminism”]

[10] In *Black Feminist Thought*, Collins relied on several ideas developed by this pioneer of critical race theory, whose most famous concept encompasses the ways in which overlapping social identities reinforce discrimination.

ANSWER: Kimberlé **Crenshaw** (That concept is intersectionality.)

[10] A more recent book by Collins is titled *From Black Power To this* artistic movement, which she claims demonstrates a contradiction between individualism and group-based social issues among Black youth. This style’s “four pillars” include rapping and DJing.

ANSWER: **hip hop** <CS>

13. This artist’s many photographs of Patti Smith included the covers of her albums *Horses* and *Waves*. For 10 points each.

[10] Name this photographer who first gained notoriety for 1978’s *X Portfolio*.

ANSWER: Robert **Mapplethorpe**

[10] Mapplethorpe’s *X Portfolio* sparked a firestorm after being exhibited at the Corcoran Gallery in *this* city. The only Leonardo in the Americas is housed in *this* American city, in the National Gallery of Art.

ANSWER: **Washington, D.C.** [accept either underlined part; or **District of Columbia**]

[10] Ntozake Shange wrote the Foreword for *this* Mapplethorpe book, which focuses on nude African-American men. This book focuses explicitly on the model’s penis in photos like *Man in Polyester Suit*.

ANSWER: **Black Book** <KR>

14. Upon discovering a massive lode of silver at this town after the Battle of Marathon, Athens decided to build 200 triremes that would later make it a naval power. For 10 points each:

[10] Name this town that was also the site of Athens’ mint. After the Peloponnesian War, Sparta forced Athens to close the mines at this town.

ANSWER: **Laurium**

[10] This statesman and victor at the Battle of Salamis convinced the Athenian assembly to expand its navy after the strike at Laurium.

ANSWER: **Themistocles**

[10] This bird was depicted on, and gave its name to, tetradrachm coins that were minted at Laurium and circulated throughout the Mediterranean. This bird was a prominent symbol of Athens and thus used on several coins.

ANSWER: **Owl** [accept **glaux**] <RM>

15. This play led the critic Irving Wardle to introduce the term “comedy of menace.” For 10 points each:

[10] Name this play in which a deranged man attempts to rape Lulu during a blackout that follows a game of Blind Man’s Bluff.

ANSWER: *The **Birthday Party***

[10] *The Birthday Party* was written by this English dramatist of *The Dumb Waiter*.

ANSWER: Harold **Pinter**

[10] The term “comedy of menace” was taken from the title of a play by David Campton, who mentored this other prolific English playwright. This “master of farce” wrote the plays *Private Fears in Public Places* and *Absurd Person Singular*.

ANSWER: Alan **Ayckbourn** <CM>

16. The IUPAC ["eye you pack"] nomenclature for this general type of compound puts square braces around two or three numbers separated by periods, as in [3.2.1] ["3 2 1"] tropane alkaloids like cocaine and atropine. For 10 points each:

[10] Name this type of organic compound found frequently in nature in molecules like camphor and decalin, which are respectively bridged and fused forms of these compounds. A description is acceptable.

ANSWER: **bi-cyclic** compounds [accept descriptions indicating molecules with **two** joined or fused **rings**; prompt on **cyclic** or **rings**]

[10] Rings which share only one atom are denoted by this term. A thio-ketone group grants androgen-blocking function to a compound named for having this relationship between a cyclic ester and its cholesterol skeleton.

ANSWER: **spiro** compounds [accept **spirolactones** or **spironolactone**]

[10] The twisted structure of some spiro compounds can give them the axial form of this property. Molecules with this property are used as auxiliaries in asymmetric syntheses to differentiate specific mirror images.

ANSWER: axial **chirality** [accept **chiral** auxiliary; prompt on **atropisomerism**] <GH>

17. Unnamed forces confine Irene and her brother to increasingly smaller sections of their house until they finally leave in this author's story "House Taken Over." For 10 point each:

[10] Name this author of "Axolotl" and "Blow-Up."

ANSWER: Julio (Florencio) **Cortázar** [cor-TA-sar]

[10] Julio Cortázar is from this country, as was Jorge Luis Borges.

ANSWER: **Argentina**

[10] In Cortázar's "The Night Face Up," a man thinks that he has to escape from members of this ethnicity, who eventually kill him. The most famous poet of this ethnicity is a man whose name translates to "hungry coyote."

ANSWER: **Aztecs** [or **Mexicas**; or **Nahuas**] <EF>

18. Galactic rotation curves are computed using this peak since it isn't absorbed by cosmic dust. For 10 points each:

[10] Name this peak emitted by the ground state hyperfine transition of neutral atomic hydrogen.

ANSWER: **21 centimeter** line [or **H I** ["H one"] line; prompt on **hydrogen line**]

[10] Because the $F = 0$ and $F = 1$ spin states are very close together, the 21 cm line is used in this lowest-energy branch of astronomy. This subfield detects long wavelengths with the huge apertures created by very-long-baseline interferometry, which was used by the Event Horizon Telescope to produce the first direct image of a black hole.

ANSWER: **radio** astronomy [or **radio** waves; prompt on **microwave** astronomy or **microwaves**]

[10] The 21 cm line is the only known way to observe the period following this event, which produced the CMBR as the first neutral atoms formed. This event started the Dark Ages, which lasted til reionization created stars.

ANSWER: **recombination** [prompt on photon **decoupling**] <GH>

19. This merchant once told a customer "I sell here, sir, what all the world desires to have-power". For 10 points each:

[10] Name this merchant who, after buying John Roebuck's share of the patent for an improved steam engine, expanded the use of those engines in, among other things, tin mines in Cornwall and his own Soho Manufactory.

ANSWER: Matthew **Boulton**

[10] Boulton's business partner and the holder of the other half of the steam engine patent was this Scottish engineer who names the SI unit of power.

ANSWER: James **Watt**

[10] Boulton and Watt were both members of the Lunar Society of this British city, whose commercial expansion led liberal statesmen like John Bright to base themselves there. Its namesake expansionary School of economics was the rival of the free-trade Manchester School.

ANSWER: **Birmingham** <JM>

20. An academic approach developed by this scholar focuses on eudaimonia, or the “good life.” For 10 points each:
[10] Name this University of Pennsylvania professor who began championing the study of what makes life worth living in works like *Authentic Happiness*, which promote his idea of “positive psychology.”

ANSWER: Martin E(lias) P(eter) **Seligman**

[10] Earlier, Seligman studied the development of “learned helplessness” in these animals, which were also used by Ivan Pavlov to illustrate the process of classical conditioning.

ANSWER: **dogs**

[10] The learned helplessness model provided the foundation for Seligman’s research on this two-word psychological attribute, which describes how an individual makes sense of why they experienced a particular event.

ANSWER: **explanatory style** [or **attributional style**] <WG>

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