

**Bulldog High School Academic Tournament 2018 (XXVII): After such knowledge, what forgiveness?**

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**Packet 14 Tossups**

1. **During World War II, this region was the site of massacres at Silver Mine Bay and St. Stephen's College. This region is home to the gang 14K, and its leaders in this region included Murray MacLehose. This region was dubbed one of the Four "Tiger" economies hit especially hard by a 1997 financial crisis. In 2014, protesters in this region fomented the (\*) "Umbrella Revolution."** This is the alphabetically-first of two regions that prompted the "One country, two systems" doctrine. This city became a Special Administrative Region in 1997, two years before Macau. For 10 points, name this Cantonese-speaking city in the south of China, which was once run by the U.K.

ANSWER: Hong Kong [or Xiang Gang] <JW>

2. **In a text named for these things, a father promises toy carts to get his children out of a burning house, illustrating the idea of "expedient" or "skillful" means. That text named for these things, which is especially influential in Japan, emphasizes that anybody can become a Buddha. The Red Turban Rebellion was started by members of a sect named for a (\*) white one of these things.** The Buddha just held one of these objects in the founding "sermon" of Zen Buddhism. Lakshmi is represented by this plant, which names a Hatha yoga *asana* with legs crossed and feet on top of the thighs. For 10 points, name this flower whose "position" is adopted during meditation.

ANSWER: lotuses [accept just flowers or equivalents; accept Lotus Sutra or Saddharma Pundarika Sutra; accept Padma; accept White Lotus society; accept flower sermon] <JR>

3. **Periwinkle species native to this country have been used to treat illnesses including Hodgkin's disease and leukemia. This country is home to a carnivorous animal similar to cats and mongooses, called the fossa. The traveler's palm is featured on the national emblem of this home to the 19th-century Canal des (\*) Pangalanes.** Most species of baobab trees are native to this country. Along with Indonesia, this country is the world's largest producer of cloves and vanilla. Mayotte lies southeast to this home of the Merina ethnic group, who speak Malagasy. Lemurs are found on—for 10 points—what large island country that the Mozambique channel separates from southeast Africa?

ANSWER: Republic of Madagascar <MK>

4. **This mathematician proved that the probability of "a random variable being greater than or equal to  $a$ " is less than or equal to "its expected value divided by  $a$ ." The simplest dynamic Bayesian network is a "hidden" example of this mathematician's namesake model. Chebyshev's inequality can be proven using this man's namesake inequality. He names a model in which the current (\*) state is multiplied by a transition matrix to find probabilities of the next state. Random walks and other stochastic processes can be studied using—for 10 points—what Russian mathematician's namesake "chains"?**

ANSWER: Andrey (Andreyevich) Markov [accept Markov chains, Markov's inequality, or Markov process] <AF>

5. **A poem tells one of these people that they will "wander like a breeze" and hear an "eternal language." The speaker wishes that "all seasons shall be sweet" to one of these people in Coleridge's "Frost At Midnight." Another poem describes "bugles calling for" these title people from "sad shires," who are commemorated by "Only the stuttering (\*) rifles' rapid rattle." A poem titled for them ends "How can we know the dancer from the dance?" A poem begins asking, "What passing-bells for" *these* title people, who "die as cattle?" For 10 points, name**

these people who are “Doomed” in a Wilfred Owen “Anthem,” and who W.B. Yeats saw as he “walk[ed] through a schoolroom.”

ANSWER: **children** [or **youths**; accept **kids** and other clear equivalents; accept more specific answers like **school children** or **boys**; prompt on **soldiers** by asking “How does the title refer to them?”; accept “Anthem for **Doomed Youth**” or “**Among School Children**”] <MK>

6. **This structure is supported by the subiculum. A reversible loss of volume in this structure occurs in Cushing’s disease due to the density of glucocorticoid receptors within it. The posterior portion was found to be significantly enlarged in London black cab drivers. This structure was removed in Patient (\*) H.M.** In rats, it contains place cells. This structure is adjacent to the dentate gyrus, and it lies below the amygdala and hypothalamus. Damage to it causes anterograde amnesia. For 10 points, name this part of the brain’s limbic system that’s “seahorse-shaped” and involved in long-term memory.

ANSWER: **hippocampus** <HK>

7. **A painter from this country had a 1917 exhibition closed for “obscenity,” since his realistic nudes included armpit and pubic hair. A man from this country sculpted an abstracted bottle spiralling outward onto its base. A Paris-based painter from this country was known for portraits with almond-shaped eyes and flattened, stretched faces. An artist from this country sculpted a man striding forward in the rippling, abstracted bronze (\*) *Unique Forms of Continuity in Space*.** A manifesto from this country declares “a roaring automobile...is more beautiful than the *Victory of Samothrace*.” Futurism was born in—for 10 points—what home of Amedeo Modigliani and Umberto Boccioni?

ANSWER: Kingdom of **Italy** [or Regno d’Italia] <JR>

8. **One side in this war subsisted on lentils nicknamed “victory pills.” This war was preceded by the “black two years” and a bloody miners’ strike. During this war, Leftists perpetrated a “Red Terror” that included the “execution” by firing squad of a statue of the Sacred Heart of Jesus. This war is the origin of the term (\*) “Fifth Column.”** This war was sparked by the formation of a Popular Front government, which was aided by the International Brigades. During this war, the Nazis’ Condor Legion bombed the civilian town of Guernica. For 10 points, name this war between Manuel Azaña’s Republicans and Francisco Franco’s Nationalists.

ANSWER: **Spanish Civil** War <SPQR>

9. **A myth of these people describes a pair of youths who trick their elder brothers into climbing a tree that continually grows taller. In another of their myths, a demon is crushed to death by a mountain after trying to eat a delicious-looking fake crab. These people told of a bird demon whose eyes and teeth are pulled out after he pretends to be the Sun and the Moon. The bat god Cama-zotz lives in the underworld ruled by (\*) One Death and Seven Death in these people’s epic about Hu-nah-pu [hoo-nah-POO] and Xba-lan-que [sh’ba-lahn-KAY], the Hero Twins. The *Popol Vuh* [POH-pohl VOO] was authored by, for 10 points, what Meso-american civilization whose Long Count calendar most recently ended on December 21, 2012?**

ANSWER: **Maya** people [or **Mayan** people; accept **K’iche’** Maya]v <SPQR>

10. **One of these men was assassinated after insinuating that Harmodius’ sister was not a virgin. One of these people in the Archaic Period named Periander built a canal over the Isthmus of Corinth. Most Sicilian *poleis*, including Syracuse, were ruled by these men, including Hiero I. After Athens lost the Peloponnesian War, (\*) thirty of these people were installed as its rulers. Solon was succeeded by one of these men, whose sons Hippias and Hipparchus were assassinated by Cleisthenes and other democrats. Unlike a *basileus*, these people took power in military coups. Peisistratus was—for 10 points—what kind of one-man rulers of Ancient Greece.**

ANSWER: **tyrants** [or **tyrannos** or **tyrannoi**] <SPQR>

11. A novel by this man makes fun of sentimental fiction and plagiarizes a long love story from *Tristram Shandy*. One of his dialogues centers on the *Querelle des Bouffons* [keh-RELL day boo-FAW] and is set in the chess players' Regency Café. The title servant of one of his books took a bullet to the knee but still insists that everything is written on a "great scroll" in the sky. He worked with a (\*) physicist who wrote a "Preliminary Discourse" placing all of human knowledge into three branches. *Jacques the Fatalist* and *Rameau's Nephew* were written by—for 10 points—what French Enlightenment *philosophe*, who co-edited the *Encyclopédie* with d'Alembert?

ANSWER: Denis Diderot <JR>

12. A C-minor piece with this nickname has an A-flat major second movement marked "Adagio cantabile," whose theme begins "C, B-flat, E-flat." This is the nickname of a C-minor piece whose first movement alternates between an "Allegro con brio" and a "Grave" introduction in dotted rhythms. A symphony with this nickname was the first to include a dynamic marking of six Ps, and has a (\*) 5-4-time "limping" waltz for a second movement. That B-minor symphony with this nickname premiered just days before its Russian composer died of possibly self-inflicted cholera. For 10 points, give this nickname of Beethoven's eighth piano sonata and Tchaikovsky's sixth symphony.

ANSWER: "Pathétique" <JW>

13. On one track, this artist says "I'm in that Tonka color of Willy Wonka" and asks "So let me get this straight, wait, I'm the rookie?" as part of a beef with Lil Kim. In another song, this singer "pulled up in the Jag, and I hit him with the jab" and describes guys like "Troy," who "used to live in Detroit" and "Michael," who "used to ride motorcycles." In a track "for the boys with the (\*) booming system / Top down, AC with the cooler system" this singer's heartbeat is described as the title "boom badoo boom, boom badoo boom." This artist, Jessie J, and Ariana Grande sang "Bang Bang." For 10 points, name this rapper behind "Anaconda," "Starships," and "Super Bass."

ANSWER: Nicki Minaj [or Onika Tanya Maraj] <JR>

14. Observation of the "neutrinoless double" form of one type of *this* process would imply that at least one neutrino is a Majorana particle. A type of this process is governed by the Geiger–Nuttall law, which can be derived by viewing that type of this process as quantum tunnelling. It can occur due to electromagnetic interactions with electrons in internal conversion, or proceed via electron (\*) capture. The unit for the rate of this process is the Becquerel. This process does *not* occur along the "belt of stability" and at "magic numbers." A helium nucleus is emitted in the "alpha" form of this process. For 10 points, name this process in which an unstable atom emits particles.

ANSWER: radioactive decay [accept alpha or beta decay; prompt on radioactivity or emission] <AF>

15. This actor popularized the use of "walking alone into the distance" endings. This man's character is told "It's no Buckingham Palace" after he dislodges a broom, causing his house's roof to fall in. His character accidentally gets high from eating contraband cocaine in a film whose only (\*) dialogue comes from his boss on a screen. His character makes two bread rolls dance in a film in which he's forced to eat his own shoe. In a 1936 movie, his character makes a repetitive wrenching motion after being fed through the gears of a factory machine. For 10 points, name this star of *The Gold Rush* and *Modern Times*, who wore a bowler hat and moustache as The Tramp.

ANSWER: Charlie Chaplin [or Charles Spencer Chaplin] <JR>

16. A 1905 book titled for this system used a method of “*Verstehen*” [“fair”-SHTAY-en] to understand a series of “ideal types.” That book titled for this system ties its development to progressive “disenchantment,” creating what Talcott Parsons translated as the “iron cage” of rationality. The social effects of this system were explored in the “Paris Manuscripts” and the *Grundrisse*. The doctrine of (\*) predestination and other aspects of the Protestant Ethic were linked to the “Spirit” of this system by Max Weber. A 1776 book described its inadvertent benefits as the result of an “invisible hand.” For 10 points, name this economic system described in Adam Smith’s *The Wealth of Nations*.

ANSWER: **capitalism** [accept *The Protestant Ethic and the “Spirit” of Capitalism*; accept *Die protestantische Ethik und der Geist des Kapitalismus*] <JR>

17. In one of this man’s poems, only Hope is left in a jar by a woman with a name meaning “All-Gifts.” At the opening of one poem, this man portrays himself as a shepherd on Mount Helicon, who’s given a laurel staff by the Muses. He addressed his brother in a poem that recounts the Five (\*) Ages of Man and includes almanac-like information on astronomy and farming. This man originated the idea of a Golden Age as well as the Pandora and Prometheus stories. His works took their present shape just after Homer’s. For 10 points, name this Ancient Greek poet who wrote *Theogony* and *Works and Days*.

ANSWER: **Hesiod** [or **Hesiodos**] <JW>

18. This quantity varies along the vertical axis of a Penrose diagram. This quantity corresponds to the first entry in a metric signature. Intervals that lie within the light cone are “like” this quantity, which remains fixed during a Galilean transformation. Muons can be detected on Earth because this quantity’s “coordinate” value is greater than its (\*) “proper” value by the Lorentz factor. In Minkowski space, this quantity adds on to 3-D space to become a fourth dimension. Starting from rest with constant acceleration, displacement equals one-half acceleration times *this* quantity squared. For 10 points, what quantity multiplies a constant acceleration to give the change in velocity?

ANSWER: **time** [accept **time-like** interval; prompt on **T**] <SE>

19. Three activists who were trying to help people do this activity were killed by the KKK in the Mississippi Burning murders. Until 2013, laws governing this activity were scrutinized in jurisdictions identified by a “coverage formula.” Increasing this activity’s prevalence was a major goal of the 1964 Freedom Summer. Malcolm X warned that if this peaceful action didn’t work, it would be replaced by “the (\*) bullet.” The original “grandfather clauses” concerned the right to perform this action, which was protected by a namesake “Rights Act of 1965.” Under Jim Crow, literacy tests and poll taxes hindered black Americans from doing—for 10 points—what political activity?

ANSWER: **voting** [accept synonyms like casting a **ballot**; accept **registering to vote**; accept **suffrage**] <SE>

20. In a play by this author, KKK member Oscar pines for Laurette Sincee in Bowden, Alabama. In that play’s sequel, the protagonist is called an “eater of the earth” and is freed up by the heart attack of her husband Horace. Another play by this author of *Another Part of the Forest* opens with a girl faking an illness at school and includes a reading of Shakespeare’s “the quality of mercy” speech by (\*) Peggy Rogers. In one of her plays, Regina blackmails her brothers for majority ownership of a cotton mill. Mary Tilford accuses the teachers Karen Wright and Martha Dobie of being lesbian lovers in her *The Children’s Hour*. For 10 points, name this author of *The Little Foxes*.

ANSWER: Lillian (Florence) **Hellman** <MK>

*Tiebreaker*

21. In one of this author’s poems, an “old yellow pair” remember the “twinklings and twinges” and mostly consume the title food. In a 1983 reading of this author’s most famous poem at the Guggenheim, this poet

**emphasized and clipped the repeated last word of each line. This poet's hometown neighborhood in Chicago was fictionalized in the debut collection *A Street in (\*) Bronzeville*.** This author of "The Bean Eaters" wrote a poem headed "THE POOL PLAYERS / SEVEN AT THE GOLDEN SHOVEL" that describes a group of people who "lurk late," "strike straight," "Jazz June," and "Die soon." For 10 points, what black woman wrote "We Real Cool"?

ANSWER: Gwendolyn (Elizabeth) **Brooks** <CK>

## Bonuses

1. This author had to add notes to fill a book with a poem whose sections include “Death by Water” and “The Fire Sermon.” For 10 points each:

[10] Name this Anglo-American poet, who wrote that “April is the cruellest month” in his poem *The Waste Land*.

ANSWER: T. S. **Eliot** [or Thomas Stearns **Eliot**]

[10] In Eliot’s “The Love Song of J. Alfred Prufrock,” the speaker asks, “Do I dare to eat [one of *these* items?]”

ANSWER: a **peach**

[10] Prufrock also parenthetically imagines the women in the room remarking how his hair, arms, and legs can be described by *this* adjective.

ANSWER: **thin** [accept “How his hair is growing **thin**!” or “But how his arms and legs are **thin**!”] <MK>

2. This two-word phrase was coined in a 1976 article by Linda Kerber. For 10 points each:

[10] Name this patriotic ideal of the Revolutionary era, according to which the role of women is to instill the namesake patriotic values in their children.

ANSWER: **republican motherhood**

[10] This Revolutionary-era woman espoused many of the views on women’s education associated with republican motherhood in her many letters to her husband, who became the second President.

ANSWER: Abigail **Adams** [accept Abigail **Smith**]

[10] Catharine Sedgwick, a proponent of republican motherhood, is best-known for the novel *Hope Leslie*, which is set during a war with *these* people. These people fought the Massachusetts Bay Colony in the late 1630s.

ANSWER: **Pequot** [accept **Pequot War**] <JR>

3. The Biot–Savart law can be used to calculate a stationary electric current’s contribution to this field. For 10 points each:

[10] Name this field denoted with a capital *B*, of which a permanent example points from the north to the south pole of many iron bars.

ANSWER: **magnetic** field

[10] The magnetic field due to a straight or circular wire can be easily calculated using this law, which relates the integral of a magnetic field around a closed loop to the current passing through that loop.

ANSWER: **Ampère**’s law [or **Ampère**’s circuital law]

[10] James Clerk Maxwell corrected the differential form of Ampere’s law by adding the displacement current term, in which *this* operation is applied to the electric field.

ANSWER: **time derivative** [or **derivative with respect to time**; prompt on **derivative**] <SE>

4. In a four-line poem, the narrator describes lifting his head to see this object before thinking about home. For 10 points each:

[10] Name this object that’s seen in the 8th-century lyric “Quiet Night Thought.”

ANSWER: the **moon**

[10] “Quiet Night Thought” is a poem by this 8th-century poet who also wrote “Drinking Alone by Moonlight.”

ANSWER: **Li** Bai [or **Li** Po; or **Li** Taibai]

[10] Li Bai’s “Quiet Night Thought,” like many post-Han *shi* poems, has *this* number of characters in each line. This is the number of iambs used Shakespeare’s favorite blank verse meter.

ANSWER: **five** [accept iambic **pentameter**] <MK>

5. The “selective” ability to mobilize this faculty is usually hindered by the Stroop effect. For 10 points each:

[10] Name this cognitive faculty that is mobilized with difficulty in individuals with ADD.

ANSWER: **attention** [accept **attention deficit disorder**]

[10] Executive control of attention has been hypothesized to occur via a neural “stream” identified by *this* term, which is contrasted with “ventral.” In humans, its meaning is similar to “posterior.”

ANSWER: **dorsal**

[10] Trauma-induced inabilities to control attention have been linked to lesions of the “junction” between these *two* lobes of the brain. One of these lobes contains the main “touch” cortex, while the other contains the auditory cortex.

ANSWER: **temporal** lobe AND **parietal** lobe [accept **temporoparietal** junction; prompt on **TPJ**] <JR>

6. This opera’s title character dies after seeing Elizabeth’s dead body and renouncing Venus. For 10 points each:

[10] Name this opera that, like a much later opera by its composer, centers on an old German legend about a singing contest. It was composed immediately after *The Flying Dutchman*.

ANSWER: **Tannhäuser** [TAHN-hoy-zuh]

[10] *Tannhäuser* and *The Flying Dutchman* were written by *this* German composer of the *Ring* cycle and *Tristan and Isolde*.

ANSWER: (Wilhelm) Richard **Wagner**

[10] From lowest to highest, list the four pitches of the “Tristan” chord as it’s first presented. It may help to know that all of its notes are notated with either a natural or a sharp.

ANSWER: **F**, **B**, **D-sharp**, and **G-sharp** [do **not** accept or prompt on answers that don’t include the sharps] <JR>

7. The Bancroft point is the temperature at which these mixtures arise. For 10 points each:

[10] Name these mixtures that can’t be separated by distillation. “Negative” examples of them have *higher* boiling points than their components.

ANSWER: **azeotropes**

[10] A common azeotrope is a mixture of 95.63% ethanol and 4.37% *this* compound. This liquid, which becomes less dense when it freezes, is a “universal” solvent due to its highly electronegative central oxygen.

ANSWER: **water** [or **H2O**]

[10] These compounds are used to break azeotropes, usually by affecting the volatility of only some of the mixture’s components. For the ethanol-water azeotrope, benzene and cyclohexane are commonly used as these compounds.

ANSWER: **entrainers** <AF>

8. David Ortiz and Steve Nash used this platform to announce their retirement. For 10 points each:

[10] Name this website that publishes first-person stories directly from athletes. This website was founded by Derek Jeter and launched in late 2014.

ANSWER: *The* **Players’ Tribune**

[10] Following a 3-1 collapse against Golden State in 2016, this player announced that he was joining the Warriors with the *Players’ Tribune* article “My Next Chapter.”

ANSWER: Kevin (Wayne) **Durant**

[10] This former point guard, who missed the most field goal attempts of any NBA player ever, goes by the pseudonym “Black Mamba” on the website. This man won five championships with the Lakers in the 2000s.

ANSWER: **Kobe Bryant** [accept either name] <SPQR>

9. A C-major Mozart piece in this genre, K number 515, opens with the longest opening movement of any instrumental piece before 1800. For 10 points each:

[10] Name this often large-scale genre of numerous pieces by Luigi Boccherini, as well as Franz Schubert’s last and longest chamber piece.

ANSWER: **string quintets** [accept **viola quintets** or **cello quintets**; prompt on just **quintets**]

[10] Mozart made a string quintet arrangement of a C-minor work in this genre for wind ensemble. The title of Mozart’s *Eine kleine Nachtmusik* puts it in this genre, which is similar to a cassation or divertimento.

ANSWER: **serenades**

[10] This is the only brass instrument in Mozart's later serenades for wind. Mozart wrote four concertos for this intricately coiled instrument, which is usually played with one hand in its bell.

ANSWER: french **horns** <JR>

10. Despite a terminal illness, this character is abandoned by his wife Praskovya, leaving Gerasim as his only caretaker. For 10 points each:

[10] Name this title character of an 1886 novella. He dies of a fall while hanging curtains in his home.

ANSWER: **Ivan Ilyich** [prompt on partial answer; accept *The **Death of Ivan Ilyich*** or ***Smert' Ivána Ilyichá***]

[10] *The Death of Ivan Ilyich* was written by this Russian author of *War and Peace*.

ANSWER: Leo **Tolstoy** [or Count Lev Nikolayevich **Tolstoy**]

[10] In Tolstoy's novel *Anna Karenina*, Sergei can't find it in himself to propose to Varenka while they are out together performing *this* activity.

ANSWER: **picking mushrooms** [accept obvious equivalents like **mushroom gathering**] <MK>

11. This region was the homeland of many Pre-Socratic philosophers, including Heraclitus, Thales, Anaximander and Anaximenes. For 10 points each:

[10] Name this region that lay between Aeolis and Doris along the West coast of modern Turkey. Its namesake Revolt prompted the Persian invasion of Greece.

ANSWER: **Ionía** [accept **Ionian** Revolt]

[10] This tyrant of Miletus led the Ionian revolt after failing to take Naxos with the Persian satrap Artaphernes. Gorgo, the young daughter of king Cleomenes, convinced her father not to listen to this man.

ANSWER: **Aristagoras** of Miletus

[10] Cleomenes was king of this highly militaristic Greek city-state, which flourished on the backs of slave labor carried out by *helots*.

ANSWER: **Sparta** [or **Lacedaemon**] <SPQR>

12. For 10 points each—answer the following about characters with shared names...in Greek mythology:

[10] A Lycian warrior with this name swaps armour with Diomedes [ˈdie-ˈAW-mee-DEEZ] during the Trojan War. Meanwhile, an unrelated fisherman of this name turns into a merman and falls in love with the nymph Scylla

[SILL-luh].

ANSWER: **Glaucus**

[10] There exist at least three characters by the name of Aeolus [AY-oh-luss]; at least one of them is a god of *this* phenomenon, which is also personified by Boreas [BOH-ree-uss] and Zephyrus.

ANSWER: **wind** [or obvious equivalents; prompt on **air**; do **not** accept "sky"]

[10] In the *Iliad*, the warriors Ajax the Greater and Ajax the Lesser fight under *this* king of Mycenae [ˈmy-ˈSEE-nee], who's the commander of the Greek army.

ANSWER: **Agamemnon** <SPQR>

13. Dunkirk was sold to France in this decade by Charles II. For 10 points each:

[10] Name this decade, which also saw the Great Plague.

ANSWER: **1660s**

[10] The most important source for the 1660s is the diary of this man, the Chief Secretary to the Admiralty under James II. His diary, written mostly in shorthand, also contains coded accounts of his more illicit affairs.

ANSWER: Samuel **Pepys** [ˈpeeps]

[10] 1666 was proclaimed an *annus mirabilis* in part due to the achievements of this man, who supposedly observed an apple falling from the tree and formulated the law of universal gravitation.

ANSWER: Sir Isaac **Newton** <SPQR>



14. For 10 points each—answer the following about depictions of Europe’s neighbors by 19th-century French artists:

[10] Artists like Ingres [like “angry” without the “y”] frequently depicted Middle Eastern women in this state, especially in his many paintings of odalisques. Classical sculptures traditionally depicted heroes, gods, and athletes in this state.

ANSWER: **nudes**

[10] This painting shows numerous nude Middle Eastern women being stabbed. It’s dominated by a huge, tilting, red-covered bed, which has golden elephants’ heads at its corners.

ANSWER: *The **Death of Sardanapalus*** [or *La **Mort de Sardanapale***]

[10] This painter of *The Death of Sardanapalus* kept the clothes on the subjects of his harem scene *The Women of Algiers*. His most famous painting, however, is titled for a topless woman.

ANSWER: (Ferdinand Victor) Eugène **Delacroix** (The second painting is *Liberty Leading the People*) <JR>

15. For 10 points each—answer the following about the biology of bees:

[10] Bees secrete these chemicals to alert other bees to threats or the presence of food. In general, this is the name for a chemical used by insects or other organisms to communicate.

ANSWER: **pheromones**

[10] Bees may also share information by doing a characteristic figure-eight movement. That movement is given *this* whimsical name.

ANSWER: **waggle dance** [prompt on partial answer]

[10] In the process of pollination, bees gather pollen from these “male” organs of a flower, which contain the anther and combine to form the androecium.

ANSWER: **stamens** [or **stamina**] <JW>

16. The first bust of this figure is destroyed at Morse Hudson’s shop as the culprit looks for a black pearl. For 10 points each:

[10] Name this man; at the end of that story, Sherlock Holmes catches Beppo before he can destroy the sixth and final bust of this man. In another novel, a pig with this name exiles Snowball during his rise to power.

ANSWER: **Napoleon Bonaparte** [accept either underlined part; accept “The **Adventure of the Six Napoleons**”]

[10] Like all the original Sherlock Holmes stories, “The Adventure of the Six Napoleons” was written by this British author.

ANSWER: Sir Arthur **Conan Doyle** [prompt on partial answer]

[10] At the end of this Sherlock Holmes story, Sherlock and his nemesis Moriarty both fall off a cliff at Reichenbach Falls.

ANSWER: “The **Final Problem**” <MK>

17. This feature lies between a similarly-named “margin” and “slope” or “rise.” For 10 points each:

[10] Name this kind of region that’s much higher than the adjacent abyssal plain.

ANSWER: **continental shelf** [prompt on partial answer]

[10] Continental shelves often feature the submarine variety of these gouges, which rivers cut into a bed of rock. If they’re steep enough, they’re called gorges.

ANSWER: submarine **canyons**

[10] The undersea “rivers” that carve out submarine canyons are *these* flows of fast-moving, dense water loaded up with sediment. These flows form abyssal fans.

ANSWER: **turbidity currents** [prompt on partial answer] <JR>

18. This city is home to the tallest capitol building in the United States. For 10 points each:

[10] Name this Louisiana city from which John Bel Edwards currently governs.

ANSWER: **Baton Rouge**

[10] Inside the Louisiana State Capitol, one can find a hole in the wall formed by one of the bullets that Carl Weiss used to assassinate this man, who declared “Every Man a King” while advocating his “Share Our Wealth” program.

ANSWER: Huey (Pierce) **Long**, Jr.

[10] Baton Rouge is the largest city in the National Heritage Area named for this river, which gets its name from the Choctaw for “long river.” This river cuts a straight line a bend in the Mississippi to the Gulf of Mexico.

ANSWER: **Atchafalaya** River <MK>

19. Theodor Herzl is considered one of the founders of this movement in its modern form. For 10 points each:

[10] Name this movement that called for a Jewish state to be re-established in the historical region of Israel.

ANSWER: **Zionism**

[10] This term, which refers to a Jew born in Israel, has been variously used as a term of abuse by anti-Semites and as a marker of pride by the Zionist movement.

ANSWER: **sabra** [or **tzabar**]

[10] This term refers to immigration to Israel by Jews scattered in the diaspora. This term also refers to the act of being called up to read a section of a Torah portion.

ANSWER: **aliyah** [accept **aliyot**] <JW>

20. This country’s empire retook more direct power in the Meiji Restoration. For 10 points each:

[10] Name this country once ruled by the Tokugawa Shogunate.

ANSWER: **Japan** [or **Nippon**-koku; or **Nihon**-koku]

[10] After the Meiji Restoration, Japan adopted *this* kind of parliament in imitation of the Holy Roman Empire’s general assembly. One of these assemblies was convened in the aftermath of Martin Luther’s 95 Theses.

ANSWER: National **Diet** [or **Kokkai**; accept **Diet of Worms**; prompt on **Landstag** or **Reichstag**]

[10] The Diet gained significant power under this emperor, who took power after the death of the Meiji emperor.

ANSWER: **Taisho** [or **Yoshihito**] <JR>

*Tiebreaker*

21. The “ring” type of this property occurs when molecules have abnormal bond angles. For 10 points each:

[10] Name this raising of the energy of a molecule due to its structure. Resistance to twisting is known as the Pitzer or “torsional” type of this property.

ANSWER: **strain**

[10] Kenneth Pitzer also introduced the “acentric factor,” which quantifies how far a molecule is deformed from a perfect example of *this* shape. *s* orbitals adopt this shape.

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

[10] Pitzer is best-known for his papers on the thermodynamics of *these* solutes that make water conduct electricity. These substances, which include salts, must be replenished along with water after losing fluids in physical activity.

ANSWER: **electrolytes** <AF>

