

Early Fall Tournament 2018: I guess Brexit really does mean Brexit

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Tossups

1. **The DuPhos (“doo-FOSS”) ligand is commonly seen in catalysts for this type of reaction. Benzyl protecting groups on amines are typically removed using this type of reaction, one example of which converts maleic acid to succinic acid. Rhodium is bonded to three triphenylphosphine ligands and a chloride in one catalyst for this type of reaction. Nitriles are converted to (*) amines using one of these reactions that is catalysed by Raney nickel. Wilkinson’s catalyst is used for this type of reaction. Cis-alkenes are selectively generated in one of these reactions with the help of Lindlar’s catalyst. This type of reaction converts unsaturated fats into saturated ones. For 10 points, name this type of reaction that adds the lightest element across a double bond.**

ANSWER: **hydrogenation** [accept **hydrogenolysis** until “succinic” is read; prompt on **reduction**]

<EM, Chemistry>

2. **The woodcarvings of the Bagaya Monastery are on the banks of this river in the former royal capital of Amarapura. Teak logs are often transported along this river, the longest in a country that supplies half of the world’s teak supply. The confluence of the Mali and N’mai Rivers into this river was the planned site for the controversial Myitson Dam. One can find (*) George Orwell’s former red brick house along the banks of this river. The Kachin people reside on the banks of this river, whose basin was the site of the Kingdom of Pagan. In one poem, Rudyard Kipling gave this river the nickname “The Road to Mandalay.” For 10 points, name this longest river in Myanmar that flows into the Andaman Sea.**

ANSWER: **Irrawaddy** River [or the **Ayeyarwady** River]

<KH, Geography>

3. **The speaker of a poem by this poet recalls that a road that is “too lovely to explore” and that will bring “you to the milk-man’s door” is the reason “why I have not travelled more.” The sad image of sitting “in the sitting room” is repeated in a poem by this author about the Sacco and Vanzetti trial. This poet of “Justice Denied in Massachusetts” wrote a poem in which a mother laments to her son that “You’ve need of (*) clothes to cover you.” One collection by this poet includes a poem that beckons the reader to “Come and see my shining palace built upon the sand!” This poet of “The Ballad of the Harp Weaver” wrote a poem whose speaker’s “candle burns at both ends; / It will not last the night.” For 10 points, name this poet of *A Few Figs from Thistles*.**

ANSWER: Edna St Vincent **Millay**

<WN, Poetry>

4. A verse describing this object was recited over and over as a folk remedy for fever. The world's oldest continuously operating library can be found at Saint Catherine's Monastery, which Justinian had built to mark the supposed location of this object. Several commentaries propose that the Hebrew word for this object, *seneh* ("sneh"), either puns on or refers to "Sinai." This object serves as the logo of the Jewish Theological Seminary. A man takes off his sandals and (*) hides his face as he approaches this object. That man's hand is made leprous and his staff is turned into a snake after a voice from within this object declares "I am what I am," a phrase from which the name "Yahweh" is derived. For 10 points, name this unharmed plant that God appeared as to command Moses to lead the Jews out of bondage in Egypt.

ANSWER: the burning bush [or descriptive answers indicating a bush that was on fire; accept seneh before it is read]

<AG, Religion>

5. Artifacts used in this practice, including a dragon-headed plaque made of whalebone, were found at the site of Scar in Orkney. The consumption of alcohol by a slave girl, who went from tent to tent to have intercourse with several men, was described in an account of this practice by Ibn Fadlan. In 2017, Annika Larsson controversially claimed that the embroidery on clothing used in this practice contained words in Kufic script reading "Ali" and "Allah." Oval-shaped "stone ships," like one found near the Jelling ("yelling") stones, marked places used for this practice. A helmet adorned with boar motifs that matched descriptions in (*) *Beowulf* was found at a site where this practice took place named Sutton Hoo. Contrary to popular depictions, these events did not involve setting fire to a vessel at sea. For 10 points, identify this practice in which Vikings and their ships were lowered underground.

ANSWER: Viking burials [or Viking funerals; accept ship burials]

<KS, Other History>

6. A book on this art form begins by discussing the ages of the people practicing it, starting with the age of seven and younger, and concluding by discussing those who are 50 and older. That work, *The Book of the Transmission of Flower*, was written by the founder of this art form. A set of works in this art form have been translated by Royall Tyler, including one in which a gardner drowns himself, *The Damask Drum*. This art form was typically performed alongside the more comedic (*) *kyogen*, and it is typically accompanied by a flute called a *fue* ("FOO-eh") and a type of drum called *taiko*. This art form was formalized by Zeami, who traces its use of ritualized masks back to early Shintō rituals. For 10 points, name this oldest and most-stylized form of Japanese drama.

ANSWER: noh [prompt on theater or drama]

<IJ, Drama>

7. One ruler with this name was the first to hold the title of Dauphin and named Bertrand du Guesclin ("bair-TRAWN due gay-CLAN") as Constable of France, turning the tide in the Hundred Years' War. That ruler's successor with this name suffered from "glass delusion" and was declared unable to rule after going mad and attacking his own men. One ruler with this name responded to the assassination of his uncle Louis of Orléans by arranging the assassination of the Duke of Burgundy, John the Fearless. Although he was disinherited a year later in the Treaty of (*) Troyes, that ruler with this name won the Battle of Patay after being inspired by Joan of Arc to break the Siege of Orléans. For 10 points, give this name shared by ten French kings, the last of whom was overthrown in the July Revolution in favor of Louis Philippe.

ANSWER: Charles [accept Charles V, Charles VI, Charles VII, or Charles X]

<TR, European History>

8. According to Keenan and Comrie, the kinds of elements that can be used in this type of expression in a given language are determined by the accessibility hierarchy, with “subject” at the top and “object of comparative” at the bottom. They’re not *wh*-questions, but Irish distinguishes between “direct” and “indirect” forms of these expressions, both of which are introduced by the particle *a* (“uh”). Garden-path effects are often induced by the (*) “reduced” type of these expressions, which lack complementizers. In English, these clauses are often set off by commas when they are non-restrictive, and they are introduced by a namesake type of pronoun exemplified by “which.” For 10 points, name this type of subordinate clause exemplified by the clause “who won the race” in the sentence “I saw the woman who won the race.”

ANSWER: relative clauses [prompt on “subordinate clauses” or “dependent clauses” or “embedded clauses” or “clauses”; prompt on “restrictive clauses” before “non-restrictive”; prompt on “CP” or “complementizer phrases” or “phrases” before “complementizers”; do not accept or prompt on “appositives”]

<WN, Social Science - Linguistics>

9. In these cells, Emi2 is believed to be the “cytostatic factor” that inhibits the APC/C cyclosome. One stage of these cells’ development relies on breakdown of the germinal vesicle. The extracellular matrix of these cells is surrounded by cumulus cells, whose inner layer is the corona radiata. These cells contain vesicles full of proteases, peroxidases, and sugars that form the hyaline layer during the cortical reaction, which occurs after a wave of (*) calcium ions is released. The structure surrounding these cells contains granulosa and theca cells and degenerates into the corpus luteum. During development, these cells receive disproportionately more cytoplasm than polar bodies and are arrested in prophase I until puberty. For 10 points, name these cells that combine with sperm during fertilization.

ANSWER: egg [or oocyte, or oogonium, or ova; or primary oocyte; or secondary oocyte]

<Eric M, Biology>

10. This figure and the Three Graces present gifts to a young woman in a fresco that, like its artist’s *A Young Man Being Introduced to the Seven Liberal Arts*, was painted for a villa belonging to Giovanni Tornabuoni. This figure, fully clothed, watches a nude figure sleeping in a painting in which several satyrs, one of which has his head encased in a large helmet, play with a (*) lance. In a painting named after this figure, one of the Horae, possibly representing Spring, holds out a billowing cloak. In that painting, the floating wind god Zephyr carries a nymph and blows a line of air at this figure, who covers her genitals with her hair. For 10 points, name this goddess who emerges from the sea on a shell in a Sandro Botticelli painting of her birth.

ANSWER: Venus [do not accept or prompt on “Aphrodite”]

<WN, Painting>

11. This thinker discusses the act of assenting “to the trivial suggestion of fancy” in a work about choosing “betwixt false reason and none at all.” This thinker asserted that it is not contrary to reason to “prefer the destruction of the world to the scratching of my finger” in a book claiming that all reason is the “slave of the passions.” In that book, this philosopher divides knowledge into the categories of “relations of (*) ideas” and “matters of fact,” which is sometimes called this man’s fork. A 1739 book by this writer argues that the human notion of cause and effect is merely the “constant conjunction” of events. *A Treatise of Human Nature* is by, for 10 points, what Scottish empirical philosopher, who also wrote *An Enquiry Concerning Human Understanding*?

ANSWER: David Hume

<IJ, Philosophy>

12. This piece fulfilled a prediction made by its composer's mentor late in the article "New Paths." After a two-bar introduction, this piece's second movement begins in B-flat minor with the theme in the violins and the timpani playing pounding triplets, after an F-major first movement that uses neither timpani nor violins. Like a similar work by a French composer, this piece has seven movements and includes solos for soprano and baritone. This piece's first movement climaxes at the words "They that sow in (*) tears shall reap in joy," and opens "Selig sind, die da Leid tragen" ("ZAY-likh zint dee dah LYDE TRAH-gun"). The composer's mother was commemorated by this piece, which uses texts from the Luther Bible instead of the traditional Latin mass for the dead. For 10 points, name this choral work by Johannes Brahms.

ANSWER: A German Requiem [or *Ein deutsches Requiem*; accept Brahms's Requiem]

<JR, Music>

13. One work set in this country concludes with a man comparing how he "came to be blessed" with each of his sons and realizing that "he ought to be happy." An author from this country created a character who is accused of being possessed by the devil for interrupting a sermon to say "we're all fucked." In a work set in this country, a woman goes into labor on the steps of a cathedral as the bells begin to ring for Corpus Christi. Jeronimo and Josephe appear in a (*) Heinrich von Kleist novella about an *Earthquake* in this country. A novel by an author from this country opens and closes with the sentence "Barrabas came to us by sea"; that novel concerns the Trueba family. For 10 points, name this home country of the author of *The House of the Spirits*, Isabel Allende.

ANSWER: Chile

<JG, Long Fiction>

14. This man wrote in his autobiography that his belief in "theology and the supernatural" was replaced by the "truth of evolution," leading him to become the "devoted pupil" of a thinker who was popularized in America by a combination of *Popular Science* founder Edward L. Youmans and this man's financial support. Near the end of the Spanish-American war, this friend of Herbert Spencer and member of the Anti-Imperialist League unsuccessfully tried to offer 20 million dollars of his own money to the Filipinos to purchase their independence. He advanced the (*) "law of competition" and wrote that "the man who dies rich dies disgraced" in an 1889 publication arguing that self-made captains of industry should give away their fortunes. For 10 points, name this founder of a Pittsburgh steel company and promoter of libraries and the "Gospel of Wealth."

ANSWER: Andrew Carnegie

<AH, American History>

15. The surface gravity of a black hole was analogized to this quantity in an influential paper on black hole mechanics authored by James Bardeen. The dimensions of this quantity are represented by the letter theta when performing dimensional analysis using the Buckingham pi theorem. This intensive variable is found in the denominator of the exponential in the Boltzmann distribution. One minus a ratio between two values of this quantity defines the (*) Carnot efficiency of an ideal engine. The behavior of systems as this quantity approaches its minimum possible value is described by the third law of thermodynamics. The average kinetic energy of a collection of molecules is proportional to—for 10 points—what thermodynamic quantity measured in kelvins?

ANSWER: temperature

<BB, Physics>

16. A depiction of this person “Accompanied by Wisdom and Justice” by A. Stirling Calder, the father of Alexander Calder, was added to an arch designed by Stanford White. The statue of Zeus at Olympia inspired a seated, half-naked sculpture of this person by Horatio Greenough. This person holds a cane and rests his arm on a large fasces (“FASS-eez”) in one of Jean-Antoine Houdon’s few full-body sculptures. After Pope Pius IX’s donation to a memorial to this person was (*) destroyed by supporters of the Know-Nothing Party, its construction was effectively delayed until 1879. The faint outline of this person’s suit can be seen in an unfinished memorial by Gutzon Borglum. For 10 points, name this leftmost figure on Mount Rushmore, who is the dedicatee of a massive obelisk on the National Mall.

ANSWER: George Washington

<KS, Other Arts - Sculpture>

17. While standing in a dark tomb in this kingdom, Polyidus observed a serpent use a magic herb to help revive another serpent. The youth Glaucus died after drowning himself in a jar of honey in a cellar of this kingdom. A ruler of this kingdom died after he the daughters of King Cocalus poured scalding hot water on him as he was taking a bath. An architect in this kingdom killed his talented nephew (*) Perdix by pushing him off a high tower and built a structure to house Asterion, a monster which was propitiated with a sacrifice of seven young males and maidens every year. A princess of this kingdom gave a hero some thread to help him defeat a half-man, half-bull monster in this kingdom. For 10 points, name this island kingdom once ruled by King Minos, which was home to the Labyrinth.

ANSWER: Crete [or Kriti]

<IJ, Mythology>

18. Gen Watanabe has this profession in Ann Patchett’s *Bel Canto*. The Sherlock Holmes story that introduces Mycroft Holmes is titled after the adventure of a Greek member of this profession. Richard Pevear and Larissa Volokhonsky are a husband-and-wife duo in this profession. This is the public profession of Anita Raja, who is suspected of being (*) Elena Ferrante. The work of a British member of this profession causes the narrator of a poem to feel like “some watcher of the skies / when a new planet swims into his ken.” Emily Wilson became the first woman to accomplish a certain task in this profession in 2017, and her work received attention for calling Odysseus a “complicated man.” For 10 points, name this profession that John Keats wrote about in “On First Looking into Chapman’s Homer.”

ANSWER: translators [or interpreters; or translation; or interpretation; accept “Adventure of the Greek Interpreter”; prompt on writers or writing or authors]

<RR, Misc Literature>

19. An edict named after a rosehouse in this empire’s capital promised legal equality for all of its citizens. In this empire, elites called *timariots* were granted land in conquered territory and were also responsible for tax collection before they were replaced by tax farmers called *ayan*. In this empire, provinces were divided into regions called *sanjaks* and different religious communities were partly self-governing under the (*) *millet* system. This empire’s laws were significantly revised during the Tanzimat reforms, which ended the *devshirme* system for conscripting Christians into its Janissary corps. Turkey is the primary successor state of, for 10 points, which Muslim empire which conquered Constantinople?

ANSWER: Ottoman Empire [prompt on Turkish Empire]

<TR, World History>

20. **Three instances of this operation are multiplied together and equal negative one according to the triple product rule. This operation is applied to the solution in problems that use the Neumann (“NOY-mahn”) boundary condition. The entries of a Hessian matrix are the results of this operation performed on a scalar function. This operation is performed along a curved line in the (*) “directional” generalization of it.** The order of this operation can be interchanged under some conditions of continuity according to Clairaut’s theorem. In vector calculus, when performing this operation with one variable, the other variables are held constant. For 10 points, name this operation from multivariate calculus, used to calculate the rates of change of functions.

ANSWER: partial **derivative** [or partial **differentiation**; prompt on partial; prompt on second-order derivatives on the Hessian matrix clue]

<IJ, Other Science - Mathematics>

Bonuses

1. Although it is not metamorphosis, this process is first done on gneiss (“nice”) that then recrystallizes as leucosomes in granite, or as “folds” of the rock migmatite. For 10 points each:

[10] Name this process. When applied to rocks, the “partial” form of this process results in a “leftover” component that forms other materials such as restites.

ANSWER: **melting** [accept partial **melting**]

[10] This Canadian scientist derived his “reaction series,” showing that at higher temperatures, plagioclase feldspars tend to form more calcium-rich minerals than sodium-rich minerals.

ANSWER: Norman **Bowen** [or **Bowen**’s reaction series]

[10] Bowen’s reaction series shows how silicate minerals form when this kind of substance is crystallized. When this substance leaves a volcano and can be found on Earth’s surface, it is known as lava.

ANSWER: **magma**

<IJ, Other Science - Earth Science>

2. This goddess is derisively called the “imitation woman with no vagina” in one of the *Pyramid Texts*. For 10 points each:

[10] Name this goddess, who according to Plutarch gave birth to Anubis, a jackal-headed god that was later raised by her sister.

ANSWER: **Nephthys**

[10] This Egyptian god fathered Anubis with Nephthys. This god of the afterlife was murdered by Set, and his body was rebuilt by his sister Isis.

ANSWER: **Osiris**

[10] More traditionally, Anubis was the son of this goddess, who patronized Egypt’s cats. This goddess was often depicted with a cat head.

ANSWER: **Bastet** [or **Baast**]

<IJ, Mythology>

3. A 2009 book named for these concepts includes confidence, fairness, and corruption as examples of them. For 10 points each:

[10] Give this two-word term used by the economists George Akerlof and Robert Shiller, which refers to human drives that influence an economy. They are said to be not accounted for in traditional theories of economics.

ANSWER: **animal spirits**

[10] The term animal spirits was coined by this economist, who used the term to describe a person’s confidence in the economy in his book *The General Theory of Employment, Interest, and Money*.

ANSWER: John Maynard **Keynes**

[10] Keynes pioneered behavioral economics by analogizing speculators to participants in one of these events, in which the goal is to guess the person whom other players think have the namesake quality.

ANSWER: **beauty contest** [prompt on contest; do not accept or prompt on “beauty pageant” or “pageant”]

<IJ, Social Science - Economics>

4. After Alexander the Great died, this man argued in favor of waiting for Roxana to give birth to Alexander's child and was himself named Regent in the meantime. For 10 points each:

[10] Name this general who attempted to consolidate Alexander's empire but was assassinated by his subordinates after a series of missteps including a failed invasion of Egypt.

ANSWER: **Perdiccas**

[10] After betraying Perdiccas, Seleucus Nicator was a victor in this major battle fought between multiple Diadochi which ended with the death of Antigonus I.

ANSWER: Battle of **Ipsus**

[10] Another winner at Ipsus was Cassander, who married Alexander's half-sister and became king of this region, Alexander's homeland, located north of Greece.

ANSWER: **Macedonia**

<TR, Other History>

5. The female voice ends one of this author's poems by declaring "You are Mine." For 10 points each:

[10] Name this poet of "may i feel said he" and "anyone lived in a pretty how town," known for inventive use of punctuation and lack of capitalization.

ANSWER: ee **cummings** [or Edward Estlin **Cummings**]

[10] In this cummings poem, one of the title characters discovers "a shell that sang so sweetly she couldn't remember her troubles" while another is chased by a thing "which raced sideways while blowing bubbles."

ANSWER: "**maggie and milly and molly and may**"

[10] The last line of "maggie and milly and molly and may" says that "it's always ourselves we find" in this place. A woman "sang beyond the genius" of this place in Wallace Stevens's "The Idea of Order at Key West."

ANSWER: the **sea** [do not accept "ocean"]

<RR, Poetry>

6. Answer the following about reaction coordinate diagrams, for 10 points each.

[10] The y-axis on a reaction coordinate diagram represents this quantity. It equals enthalpy minus the product of temperature and entropy.

ANSWER: **Gibbs free energy** [prompt on **free energy** or **energy**]

[10] On a reaction coordinate diagram, these entities are represented by a local minimum between two transition states. By definition, they must have a lifetime greater than that of a molecular vibration.

ANSWER: reaction **intermediates**

[10] When trying to perform one of two competing reactions starting with the same reactant, one can consult a reaction coordinate diagram to look at the relative differences in free energy, then apply one of these two forms of reaction control to get the desired product. Name either.

ANSWER: **kinetic** control OR **thermodynamic** control

<BB, Chemistry>

7. Prince-Bishop Albert of Riga founded the Sword Brothers, a crusading order also named for this region. For 10 points each:

[10] Name this region in the Baltics whose namesake crusade was declared by Pope Innocent III. It was the last part of Europe to be Christianized.

ANSWER: **Livonia** [accept **Livonian** Crusade; accept **Livonian** Brothers of the Sword]

[10] After losing the Battle of Saule, the Sword Brothers joined this other military order whose name is a synonym for German.

ANSWER: **Teutonic** Knights [or **Teutonic** Order; accept Order of **Brothers of the German House of Saint Mary in Jerusalem**]

[10] The Teutonic Knights also launched a crusade against pagans in this region, which much later would become the most powerful state in Germany under the leadership of men such as Otto von Bismarck.

ANSWER: **Prussia** [accept **Prussian** Crusade]

<TR, European History>

8. A book by Wolfgang Iser argues that the “implied” form of this sort of person is necessary to “actualize” a text, since a text is incomplete without the action of this sort of person. For 10 points each:

[10] Name this sort of person whose “response” to a work is the subject of several books by critics such as Stanley Fish.

ANSWER: **reader** [accept implied **reader** or **reader** response]

[10] Fish argues that the meaning of this kind of work is determined by sociological groups of readers that he calls “interpretative communities.” Archibald MacLeish wrote that this kind of work “should not mean, but be.”

ANSWER: a **poem** [accept **poetry**]

[10] This Italian author made the reader a character in his novel narrated in the second person, *If on a Winter's Night a Traveler*.

ANSWER: Italo **Calvino**

<IJ, Misc Literature>

9. The paintings at this site were primed with a mixture of clay, dung, and other materials. For 10 points each:

[10] Name this site in Maharashtra, constructed starting in the 2nd century BC, whose murals are largely based on the Jataka tales.

ANSWER: **Ajanta** Caves

[10] The murals on the Ajanta Caves were painted on this type of surface. The earliest Indian art was in the form of petroglyphs, which, as their name indicates, were carved into this material.

ANSWER: **rock** [accept **stones**]

[10] The main character of Satyajit Ray's film *The Stranger* is fascinated by a painting of one of these animals from the Cave of Altamira in Spain. One of these animals is painted with its hind legs crossed in the Lascaux (“lass-KOH”) Caves.

ANSWER: **bison** [do not accept or prompt on “buffalo”]

<WN, Painting>

10. This author's novella *From Me Flows What You Call Time* was selected for the Future Library, a project that collects one manuscript per year, and buries them, until printing them all in 2114. For 10 points each:

[10] Name this author who depicted a "psychosoteric" war between "Horologists" and "Anchorites" in his 2014 novel *The Bone Clocks*.

ANSWER: David **Mitchell**

[10] Mitchell's *The Bone Clocks* consists of six intertwined stories, as does this other novel by him, whose "outermost" narrative is "The Pacific Journal of Adam Ewing." It was turned into an indie film in 2012.

ANSWER: **Cloud Atlas**

[10] Mitchell's novel *number9dream* ends with a "blank chapter," which may be an homage to this Japanese character from a Lady Murasaki novel, who dies in a blank chapter titled "Vanished into the Clouds."

ANSWER: **Genji** [accept *The Tale of Genji*]

<IJ, Long Fiction>

11. While a change in the second Euler angle corresponds to nutation, a change in the first Euler angle corresponds to this type of motion. For 10 points each:

[10] Name this type of motion easily seen in a spinning top, in which the rotation axis of a spinning body slowly rotates about another axis.

ANSWER: **precession**

[10] An early success for general relativity was its ability to explain why Mercury displays an anomalous precession rate of this point in the orbit, the point where the planet is closest to the Sun.

ANSWER: **perihelion** [prompt on periapsis]

[10] Another success for general relativity was this mid-2000s experiment, which involved launching a spacecraft containing four gyroscopes into orbit, and used precise measurements of the gyroscopes' precession to confirm the geodetic and frame-dragging effects.

ANSWER: **Gravity Probe B**

<BB, Physics>

12. Answer the following about large groups of sculptures depicting humans, for 10 points each.

[10] An "army" consisting of thousands of sculptures made out of this baked material guards the mausoleum of Qin Shi Huang in Xi'an, China.

ANSWER: **terracotta**

[10] Poland donated a collection of 106 headless, armless, and rusted sculptures titled *Agora* to this city's Grant Park. This city's *Crown Fountain* shoots water out of two LED towers that display giant faces.

ANSWER: **Chicago**, Illinois

[10] This British artist of the *Angel of the North* installed hundreds of sculptures cast from his own body in southern Italy, the Austrian Alps, and the beaches near Liverpool, typically using the word "horizon" in his titles.

ANSWER: (Sir) Antony (Mark David) **Gormley**

<KS, Other Arts - Sculpture>

13. Though Sikhs are not religiously bound to this doctrine, all food served at a Sikh gurdwara follows it in order to cater to members of all faiths. For 10 points each:

[10] Name this sometimes-religious doctrine of not consuming meat.

ANSWER: **vegetarianism** [accept **lacto vegetarian**]

[10] This Sikh guru founded the Khalsa order, whose members are prohibited from eating meat from animals whose slaughter is perceived as inhumane. He was the final human guru.

ANSWER: Guru **Gobind Singh** [prompt on partial answer]

[10] Members of the Khalsa use this specific word to describe meat slaughtered in the style of the Jews and Muslims. Meat described by this adjective is forbidden, unlike jhatka meat.

ANSWER: **kutha** meat [or **kuttha** meat]

<DM, Religion>

14. In a review of one of this philosopher's books, Gilbert Ryle proposed that its "nursery words and phrases" allow for "nearly adequate expressions of really primitive meanings." For 10 points each:

[10] Name this author of a 1927 book translated into English by John Macquarrie and Edward Robinson. Those translators of this man's work included "German-English" and "English-German" glossaries since they felt that readers should be able to "re-translate" their translation back into the original.

ANSWER: Martin **Heidegger**

[10] Martin Heidegger repurposed this six-letter word, which literally means "being there," to describe humans, who Heidegger states are the only entities "for whom being is a question."

ANSWER: **dasein** ("DAH-zyne")

[10] Heidegger used this language to build many of his words in *Being and Time*. Heidegger delivered a lecture on Heraclitus, a pre-Socratic philosopher who wrote in this language.

ANSWER: **Greek**

<IJ, Philosophy>

15. Gary Sick's book *October Surprise* advances the theory that Bill Casey negotiated a secret agreement in advance of the presidential election held in this year. For 10 points each:

[10] Name this election year in which the Republican candidate allegedly struck a secret deal with a foreign government that resulted in the release of 52 Americans on inauguration day of the following year, ending a 444-day crisis.

ANSWER: **1980** presidential election [prompt on '80]

[10] Documents in the "X-envelope" confirmed an earlier secret deal in the lead-up to the 1968 election, when this Republican candidate secretly negotiated with the North Vietnamese government to stall peace talks, helping him defeat Hubert Humphrey.

ANSWER: Richard **Nixon** [or Richard Milhous **Nixon**]

[10] The Nixon campaign's back-channel to North Vietnam was Anna, the Chinese-American wife of this American aviator who led the "Flying Tigers" air force in China during World War II.

ANSWER: Claire **Chennault** [or Claire Lee **Chennault**]

<AH, American History>

16. Answer the following about the notation of late medieval music, for 10 points each.

[10] In the 14th century, composers like Philippe de Vitry began using these signs to show how to interpret their rhythms. One of these signs shaped like a “C” eventually became the modern signature for “common time.”

ANSWER: **mensuration** signs [or **mensural** sign; or **mensura**]

[10] The mensuration sign “circle-dot” indicated that a piece’s *tempus* and *prolatio* both had this property, meaning they divided into threes, not twos. This adjective describes intervals like fourths and fifths that are neither “major” nor “minor.”

ANSWER: **perfect** [accept **perfectus** or **perfectum**]

[10] Composers of the time expected most of these details of the music to be filled in as so-called *musica ficta*. This is the general term for signs that change a pitch by a half-step, or sometimes more.

ANSWER: **accidentals** (e.g. sharps and flats)

<AWD, Music>

17. In ancient China, strict gender restrictions were exemplified by the claim that “men plow” while women perform this task. For 10 points each:

[10] Name this task generally performed within the home. In Chinese legend, a girl who does this task is separated from her cowherd lover by the Milky Way.

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

[10] Most weaving in ancient China used this material, which was sold to Europe over a namesake “Road” through central Asia.

ANSWER: **silk**

[10] Prior to the increased patriarchy under the Zhou (“joe”) dynasty, this wife of King Wu Ding of Shang (“shong”) led her kingdom’s military in battles against neighboring tribes. This woman’s tomb was discovered in 1976 and is the only Shang royal tomb found intact.

ANSWER: **Fu Hao** [or Lady **Hao**; or **Mu Xin**]

<TR, World History>

18. A 2017 leptospirosis outbreak was attributed to this event, which also led to a shortage of IV bags in hospitals. For 10 points each:

[10] Name this event that led to the temporary waiving of the Jones Act to allow international ships to assist with recovery. Carmen Yulín Cruz often criticized the US government’s response to this event.

ANSWER: Hurricane **Maria** [prompt on the Puerto Rican **hurricane**]

[10] Carmen Yulín Cruz is the mayor of this island territory’s capital, San Juan. In a series of September 2018 tweets, Donald Trump claimed that “3,000 people did not die” on this island during Hurricanes Irma and Maria.

ANSWER: **Puerto Rico**

[10] The contract to repair Puerto Rico’s power grid was awarded to a 300-employee contingent from a small company named after this Montana city. This city is the hometown of Secretary of the Interior Ryan Zinke (“zinky”).

ANSWER: **Whitefish**, Montana

<KH, Current Events>

19. Before she got famous for her work on CRISPR-Cas9, Jennifer Doudna determined the structure of one of these molecules originally analyzed by Thomas Cech (“check”). For 10 points each:

[10] Name these sequences of RNA that have catalytic activity. Group I introns are considered to be these sequences because they catalyze their own excision.

ANSWER: **ribozyme**

[10] Thomas Cech studied the group I intron from this model organism, a ciliate. Greider and Blackburn’s studies of it led to the discovery of telomerase.

ANSWER: ***Tetrahymena thermophila*** [or ***T. thermophila***]

[10] The tertiary structure of RNA is partly determined by these interactions that occur between base pairs in DNA. In these bonds, the lightest element is shared between a donor and acceptor

ANSWER: **hydrogen** bond [or **H**-bond]

<Eric M, Biology>

20. This play’s main characters meet all the children who are yet to be born in the Kingdom of the Future. For 10 points each:

[10] Name this play in which the fairy Berylune helps the siblings Mytyl and Tytyl search for happiness.

ANSWER: *The **Blue Bird*** [or *L’**Oiseau bleu***]

[10] Maurice Maeterlinck’s (“mah-tair-LANK’s”) *The Blue Bird* exemplifies this literary movement that reacted against naturalism. Poets like Arthur Rimbaud (“ram-BOH”) and Paul Verlaine (“vair-LEN”) wrote highly metaphorical verse as part of this movement.

ANSWER: **Symbolism**

[10] Maeterlinck and his fellow Belgian playwright Michel de Ghelderode (“mee-SHELL duh HELL-duh-RO-duh”) both wrote a number of plays involving marionettes, a type of these objects.

ANSWER: **puppets**

<WN, Drama>