

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

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Tossups

1. **Either Martin Knudsen (“k’NOO-sin”) or this word names a flow regime in which the mean free path is of similar size to the length scale of the flow. This adjective partly names the assumption that the velocities of a collection of gas particles are statistically uncorrelated; that assumption is used to derive Boltzmann’s H-theorem and is called this type of “chaos.” Numerical prefixes modify this adjective to classify reactions by the kinetics of their rate-determining step; for example, SN1 reactions are called (*) “uni-*this*.”** This adjective describes constructs that are formed by the LCAO method and are split into high-energy and low-energy versions that are designated “bonding” and “antibonding.” For 10 points, what adjective names a type of orbital that describes the behavior of electrons in a collection of atoms?

ANSWER: **molecular** [accept **molecular** flow or **molecular** chaos or **molecularity** or uni**molecular** or **molecular** orbitals]

<EM, Chemistry>

2. **This author’s instruction that an actress wear a green carnation provides the title for a Robert Hichens roman à clef (“ro-MAWN ah CLAY”) about this author. A character in a play by this author asserts that “In this world there are only two tragedies: One is not getting what one wants, and the other is getting it.” That same scene in a play by this author includes the definition of a (*) cynic as a “man who knows the price of everything and the value of nothing” provided by Lord Darlington. Another play by this man begins with a visit from Lady Bracknell to a cucumber sandwich-loving man who avoids social engagements by Bunburying.** For 10 points, name this author of *Lady Windermere’s Fan* and *The Importance of Being Earnest*.

ANSWER: Oscar **Wilde**

<JG, Drama>

3. **This book is said to be an “analytic study of innovation” in a work by J. G. A. Pocock that is named for the “moment” of its author. This treatise’s exhortation to study the “art of war” is believed to have informed a Socratic dialogue on the same subject that its author wrote years later. This book argues that Fortune is arbiter of “one-half” of human actions, and that it must be (*) beaten and controlled like a woman. The second and third chapters of this book claim that “mixed principalities” are more difficult to maintain than “hereditary principalities.” Dedicated to Lorenzo de Medici, it praises Cesare Borgia as a ruler who “conquered by fortune.”** For 10 points, name this political treatise by Niccolò Machiavelli.

ANSWER: *The **Prince*** [or *Il **Principe***]

<IJ, Philosophy>

4. Arms dealer Alexander Parvus helped fund a journey undertaken in this year that is the subject of a 2016 book by Catherine Merridale. Orlando Figes' ("FID-jizz") book *A People's Tragedy* focuses mainly on events in this year, although it begins with an account of a major 1891 famine that was mishandled by the government of the affected country. American journalist John Reed's book *Ten Days That Shook the World* describes the fall of the provisional government led by (*) Alexander Kerensky in this year. After learning of a revolution that occurred in February of this year, the exiled Vladimir Lenin returned to his home country in the midst of World War I. For 10 points, name this year during which Tsar Nicholas II resigned and the Bolsheviks took over Russia in the October Revolution.

ANSWER: 1917

<TR, European History>

5. In the *Georgics*, Virgil says that one of these beings "was nurturing me" "as I flourished in the pursuits of my inglorious leisure," and that its body washed ashore at Naples, causing the initial colony there to take her name, Parthenope. These beings turned white and fell into the sea near Aptera, forming the islets Souda and Leon. The Muses made crowns out of the (*) feathers plucked from these creatures after they lost a singing contest to them. Demeter gave these companions of Persephone wings to search for her. Orpheus's lyre saved the Argonauts from these creatures, and Odysseus had his sailors tie him to a mast and put beeswax in his ears so that he wouldn't swim to these creatures. For 10 points, name these creatures that sang to lure sailors to their death.

ANSWER: sirens

<YFL, Mythology>

6. Jo Shapcott's collection *Tender Taxes* was inspired by French translations of this poet's work. William Gass's book titled *Reading [this poet]* describes how his fatal illness began when pricked by a rose thorn, which is alluded to in his epitaph that calls roses a "pure contradiction." This poet described a "temple for their hearing" in a poem that begins "There rose a tree. O pure (*) transcendence!" The speaker of another poem by this author describes how the title object bursts "like a star" from "all the borders of itself." This poet asserted that "For here there is no place that does not see you: You must change your life" and opened another work by asking "Who if I cried out would hear me among the angelic orders?" For 10 points, name this author of "Archaic Torso of Apollo" and the *Duino Elegies*.

ANSWER: Rainer Maria Rilke ("RILL-kuh")

<JG, Poetry>

7. Richard Hofstadter claimed that this politician was "probably the last American statesman to do any primary political thinking" in an essay that calls him the "Marx of the Master Class." This man proposed resolving federalism questions via the concept of "concurrent majority" in his posthumously published treatise *A Disquisition on Government*. This man wrote that the "right of judging" is an "essential attribute of sovereignty" in a document that he authored anonymously in 1828. This man and another politician from the same state, (*) Robert Hayne, offered toasts praising state liberty during an 1832 crisis that this man helped precipitate while serving as vice president. An "exposition and protest" against the "Tariff of Abominations" was written by, for 10 points, what antebellum politician, an advocate of nullification from South Carolina?

ANSWER: John C. Calhoun [or John Caldwell Calhoun]

<AH, American History>

8. A musician who played this instrument was the last person recruited for the Miles Davis albums *Miles Smiles* and *E.S.P.*; that musician who played this instrument recruited Miroslav Vitouš (“VEE-toosh”) with Joe Zawinul (“ZAH-win-ool”) to form Weather Report and wrote the album *Juju*. The quintet of a musician who played this instrument recorded a live album whose title track was the Zawinul tune “Mercy, Mercy, Mercy.” It’s not a piano, but two musicians played this instrument on (*) *Kind of Blue*. A musician who played this instrument is known for his reharmonization method based around major thirds. Wayne Shorter played this instrument, as did a man who reharmonized the Davis tune “Tune-Up” in his own tune “Countdown” from *Giant Steps*. For 10 points, name this instrument played by Cannonball Adderley and the artist behind *A Love Supreme*, John Coltrane.

ANSWER: saxophone [accept alto saxophone, soprano saxophone, or tenor saxophone]
<YFL, Other Arts - Jazz>

9. A 1977 paper by Brown and Kulik described a type of this process that occurs during very surprising or emotionally arousing moments. Proactive and retroactive interference can limit this process by weakening the linkage of two forms of this process. In a model of this process, information is divided between a “visuo-spatial sketchpad” and a “phonological loop”; that model was devised by Hitch and (*) Baddeley. Primacy and recency biases result in the serial position effect, which causes variance in this process. The daily repetition of verses from Byron’s “Don Juan” and nonsense syllables was used by Hermann Ebbinghaus to develop a curve that marks the degradation of this process. “Seven, plus or minus two” is described as the “magical number” in a study of this process by George Miller. For 10 points, name this human ability to store and recall information.

ANSWER: memory [accept flashbulb memory or memorization before “proactive”; accept working memory or long-term memory or short-term memory]
<RR, Social Science - Psychology>

10. Some members of this phylum contain specialized structures that coordinate movement, sense light and gravity, and are called rhopalia. A September 2017 paper in *Cell* showed that members of this phylum are the first-known organisms that are capable of sleeping despite being brainless. The bodies of organisms in this phylum largely consist of two layers of epithelium surrounding a tissue called (*) mesoglea. Deadly chemicals are rapidly discharged from specialized structures found in this phylum called nematocysts. Members of this phylum possess two radially symmetric body forms called polyps and medusae. For 10 points, name this phylum that includes sea anemones and jellyfish.

ANSWER: cnidaria [accept cnidarians]
<KH, Biology>

11. A leader of this ethnicity named Ait Ahmed founded the Socialist Forces Front, which opposed his country’s single party rule. They’re not Arabs, but these people’s namesake “Spring” occurred after scholar Mouloud Mammeri was banned from giving a lecture on their ancient poetry in the city of Tizi Ouzou. Abd el-Krim declared the Republic of the (*) Rif, which consisted mainly of this ethnic group and was defeated by French and Spanish forces in 1926. This ethnic group makes up the majority in Kabylia, a region in northeastern Algeria. The nomadic Tuaregs are a subgroup of these people. Historically, these people formed the Almohad caliphate, and they refer to themselves as Amazigh. For 10 points, name this original ethnic group of North Africa.

ANSWER: Berbers [accept Amazigh or Imazighen before mention]
<TR, World History>

12. In CFD, this quantity is defined as one-half the sum of the xx , yy , and zz components of the Reynolds stress. This quantity is paired with measures of this quantity's dissipation, which are denoted epsilon or omega, in the names of two computational models of turbulence. In quantum mechanics, this quantity is proportional to \hbar^2 times Δ^2 . The quantity [read slowly] "pressure, plus little g times height, plus this quantity per unit volume" remains constant according to the (*) Bernoulli equation. This quantity for a hoop is twice as much as for a block due to the effects of rotation. This quantity is equal to momentum squared divided by two times mass, and it stays constant in elastic collisions. For 10 points, one-half $m v^2$ equals what energy of motion?

ANSWER: kinetic energy [prompt on energy]

<BB, Physics>

13. This author claimed that a certain genre of novel leaves little room for criticism because it has a "depressing way of minding its own business... and answering its own questions." That essay posits that a certain character must be a "complete," "common," and "unusual" man. This author wrote a novel in which the disappearance of Vivian's husband Rusty is assumed to be associated with that of Mona Mars, and the protagonist kills Canino. This author of "The Simple Art of (*) Murder" wrote a novel in which Arthur Geiger, who had been blackmailing the rambunctious Carmen, is killed. For 10 points, name this author who introduced the detective Philip Marlowe in *The Big Sleep*.

ANSWER: Raymond Chandler

<JG, Long Fiction>

14. A former mayor of this city was disciplined by her party for responding to a critical tweet by praising this city's colonial-era infrastructure system. This city's mayor Patricia de Lille has warned about an upcoming Day Zero, which was originally expected to occur in April 2018. This city's former mayor Helen (*) Zille controversially asked residents to act as *impimpis* by reporting irresponsible water use. Zille's DA party criticized the decision to reject Israeli offers of water management assistance to this city, part of the pro-Palestine policy of its country's ruling ANC party. An island just off the coast of this city imprisoned its country's former presidents Jacob Zuma and Nelson Mandela. For 10 points, name this coastal South African city home to Robben Island.

ANSWER: Cape Town

<TR, Current Events>

15. One movement of this piece begins with both hands playing above middle C, with a very high tune in the right hand over sixteenth-note triplets in the left, depicting a crow circling overhead. In this piece's fifth movement, which is its first one in a major key, the *right* hand plays whirling sixteenth-note triplets, and most phrases end with imitation horn calls. The left hand repeats the same open fifth in every measure of this piece's (*) 24th and last movement, in which the singer asks if he should follow the title street musician. Like its composer's earlier *Die schöne Müllerin*, this piece sets poems by Wilhelm Müller. It opens with the song "Gute Nacht" and includes "Der Lindenbaum" and "Der Leiermann." For 10 points, name this song cycle by Franz Schubert about a wanderer's journey in the title season.

ANSWER: Winterreise [accept Winter Journey]

<AWD, Music>

16. A schism between “northists” and “southists” in this country originated with a group of settlers who arrived in the 4th century CE. A religious group in this country declared loyalty to the Syriac Church in the Coonan Cross Oath and uses a symbol that consists of a cross with flower-like points. This country is home to the remains of Francis (*) Xavier, who visited this country at the beginning of a global mission. This country’s patron saint is an apostle who doubted the resurrection of Christ before touching his wounds. A group of Christians in this country, the Nasrani, coexisted with a branch of the Church of the East along this country’s Malabar Coast. For 10 points, name this country whose Saint Thomas Christians live in its state of Kerala (“CARE-uh-luh”).

ANSWER: Republic of India [or Bharat Ganarajaya]

<DM, Religion>

17. A letter to this author informs him that while the public is “always prepared to forgive a writer for a bad book, [it] will never forgive him [for] a pernicious book.” A character created by this author is mocked for comparing a brunette to Perugino’s *Bianca* in a story which claims that artists relate to a certain city like dream images do to the real world. This recipient of an angry letter from Vissarion Belinsky wrote a story in which (*) Lieutenant Pirogov pursues a beautiful woman down a street that “embodies everything.” An “important personage” is recruited to help recover an item lined with cat fur by a man whose ghost haunts a general who insulted him in another short story by this author. This author of “Nevsky Prospect” created the character Akaky Akakievich. For 10 points, name this author of “The Overcoat.”

ANSWER: Nikolai Gogol

<JG, Short Fiction>

18. In Perl, this symbol creates a typeglob that can represent all of the values in code that share the same name. In Kotlin, this symbol represents the spread operator, which allows for a collection to be destructured as the arguments to a vararg function. Two of these symbols denote the variable-length keyword-arguments array in (*) Python. In the C programming language, this symbol creates variables that may “dangle” if the underlying memory is freed. In Java and CSS, a forward slash and this symbol delimit block comments. In C and C++, this symbol is used to declare a variable that can be dereferenced, which is called a pointer. For 10 points, name this symbol that often represents multiplication.

ANSWER: asterisk [or star]

<KH, Other Science - Computer Science>

19. A biography of this ruler by Jenny Wormald was subtitled “A Study in Failure” and criticized this ruler as an incompetent politician. This ruler escaped from captivity at Loch Leven Castle after a boy posed as the “Abbot of Unreason” to get everyone drunk, but shortly afterwards was defeated at the Battle of Langside and forced to flee the country. While this Catholic was being raised in France, her country underwent a Protestant Reformation led by (*) John Knox. The likely forged Casket Letters implicated this ruler in the death of her widely disliked husband Lord Darnley. Francis Walsingham entrapped this woman and implicated her in the Babington Plot, which aimed to place her on the English throne. For 10 points, name this Scottish queen who was executed by her cousin Elizabeth I.

ANSWER: Mary, Queen of Scots [or Mary Stuart; or Mary I of Scotland; do not accept “Mary Tudor” or “Bloody Mary”]

<TR, Other History>

20. A painting by an artist from this country uses orange, yellow, grey, and blue rectangles to depict an airplane flying. Another artist from this country made a lithographed poster in which a triangle pierces a white circle surrounded by smaller three-dimensional triangles. An artist from this country wrote a manifesto for an art movement that declared that he had transformed himself into “the zero of form” with a painting of a (*) black square that is now covered in cracks because of its poor conservation. Constructivist artists such as El Lissitzky worked in this country, the birthplace of an artist whose painting of a man on a white horse in a green field inspired the name of a German expressionist art movement. For 10 points, name this country, home to Suprematism founder Kazimir Malevich and birthplace of Wassily Kandinsky.

ANSWER: **Russia** [or **Russian Federation**; or **USSR**; or **Soviet Union**; or **Union of Soviet Socialist Republics**; or **SSSR** or **Soyuz Sovetskikh Sotsialisticheskikh Respublik**]

<YFL, Painting>

Bonuses

1. This author wrote that “confronted with sudden disaster we all focus on how unremarkable the circumstances were in which the unthinkable occurred” in a memoir of grieving her husband’s death. For 10 points each:

[10] Name this author of *The Year of Magical Thinking* who satirized Vegas weddings in “Marrying Absurd,” which is part of the collection *Slouching Towards Bethlehem*.

ANSWER: Joan **Didion**

[10] This Didion collection begins with the statement “We tell ourselves stories in order to live.” In another entry in this collection, Didion describes taking her seven-year-old daughter to a Georgia O’Keeffe exhibition.

ANSWER: *The **White Album***

[10] Didion is an author from this state. The title essay of “Slouching Towards Bethlehem” describes the debauchery of the children who flocked to this state during the hippie period of the 1960s.

ANSWER: **California**

<RR, Short Fiction>

2. Lynn Povich’s book *The Good Girls Revolt* describes her involvement in a gender discrimination claim against this company. For 10 points each:

[10] Name this magazine where Povich worked as a junior writer, and where women were not permitted to work as reporters until that lawsuit. This weekly magazine was the primary rival to *Time* for much of the 20th century.

ANSWER: ***Newsweek***

[10] The claim was filed with this federal agency that handles workplace discrimination cases. Clarence Thomas headed this agency before joining the Supreme Court.

ANSWER: **Equal Employment Opportunity Commission** [or **EEOC**]

[10] Eleanor Holmes Norton, the assistant legal director of the ACLU who represented the *Newsweek* employees in their case, is currently the non-voting Delegate to the House of Representatives from this city whose license plates read “End Taxation Without Representation.”

ANSWER: **Washington, DC** [accept either; accept **District of Columbia**]

<TR, American History>

3. So-called “hell bank notes” are burned in tribute to these people, who return to Earth during the seventh month of the year. For 10 points each:

[10] Name these people who are housed in spirit tablets. Tributes to these people are offered on a holiday that follows the three-day Cold Food Festival.

ANSWER: deceased **ancestors** [accept anything pertaining to **dead family members**]

[10] This largest ethnic group in the world, and the majority ethnicity of Singapore and Taiwan, practices those rituals of ancestor worship.

ANSWER: **Han** Chinese [prompt on **Chinese**]

[10] Chinese people burn joss paper and visit the gravesites of their ancestors during this festival. Valuable varieties of green tea are labeled for being picked before the day of this event.

ANSWER: **Qingming** Festival [or **Ching Ming** Festival; or **Tomb-Sweeping Day**; accept pre-**Qingming** Longjing]

<DM, Religion>

4. These constructs typically have a multiple-cloning site for inserts and a selectable antibiotic marker. For 10 points each:

[10] Name these small circular pieces of DNA that are commonly used for cloning. Their F type allows for bacteria conjugation, and their R type confers antibiotic resistance.

ANSWER: **plasmids**

[10] Plasmids usually contain one of these AT-rich regions, which are pulled apart by DNA helicase during replication. Initiator proteins like DnaA target these sequences, which determine the copy number of a plasmid.

ANSWER: **origin** of replication [or replication **origin**]

[10] The pcDNA3.1 vector has a promoter derived from this virus that, like Epstein–Barr, can cause mononucleosis. This herpesvirus is one of the TORCH infections and commonly infects transplant recipients.

ANSWER: **CMV** [or **cytomegalovirus**; or **human herpesvirus-5** or **HHV-5**]

<Eric M, Biology>

5. This play satirizes hastily-made revolutionary currencies with a story about notes with images of Simon Magus. For 10 points each:

[10] Name this play whose second part concludes with the “Chorus Mysticus” stating that “the eternal feminine draws us to higher spheres.”

ANSWER: **Faust** [accept **Faust Part II**; do not accept or prompt on “Dr. Faustus”]

[10] *Faust* is a two-part play by this German author of the Romantic novel *The Sorrows of Young Werther*.

ANSWER: Johann Wolfgang von **Goethe**

[10] In the first part of Goethe’s *Faust*, this woman beloved by Faust is depicted thinking of him while she is at her spinning wheel.

ANSWER: **Gretchen** [or **Margarete** or **Margrethe**]

<IJ, Drama>

6. A text written as teachings from this figure to a group of sages is known as his namesake “Laws.” For 10 points each:

[10] Name this figure, a son of Brahma who was warned of an impending flood by Vishnu in the form of the giant fish Matsya.

ANSWER: **Manu**

[10] The Laws of Manu illustrate the Vedic caste system, in which this Sanskrit word is used to denote each class. Examples of groups denoted by this word include the priestly Brahmins and the laborer Shudras.

ANSWER: **varna**

[10] Manu served as this figure in Hindu mythology. Other examples of these figures include the Persian Gayomart and Adam.

ANSWER: the **first human** [or **first man**]

<DM, Mythology>

7. Historian Leonie Treber has written about the “Myth” of these people, claiming that their image was created as part of an origin story for West Germany. For 10 points each:

[10] Give either the original German term or the English translation for the German women who cleared out the damage done to cities after World War II.

ANSWER: **Trümmerfrauen** [accept **rubble women**]

[10] A statue honoring Trümmerfrauen was erected in 1954 under this first Chancellor of West Germany who was credited with the economic recovery known as the Miracle on the Rhine.

ANSWER: Konrad **Adenauer**

[10] Adenauer opposed the trials of Nazi war criminals held in this city, which is also the namesake of a set of anti-Semitic laws passed in 1935.

ANSWER: **Nuremberg** [or **Nürnberg**]

<TR, European History>

8. Vincent Scully taught wildly popular architecture classes at this university, where Robert A. M. Stern still teaches. For 10 points each:

[10] Name this university home to Ingalls Rink, which was designed by Eero Saarinen (“arrow SAH-ree-nen”) and is nicknamed “The Whale” because of its shape.

ANSWER: **Yale** University

[10] New Haven is also home to the headquarters of the Knights of Columbus, which won a Pritzker Prize for this architect who co-founded a Connecticut-based firm with John Dinkeloo.

ANSWER: (Eamonn) Kevin **Roche**

[10] New Canaan, Connecticut, is the site of a house that Philip Johnson made mostly out of this material. Johnson also used this material for the Crystal Cathedral.

ANSWER: **glass**

<WN, Other Arts - Architecture>

9. The so-called “elephant chart,” named for its resemblance to an elephant, plots the global distribution of this value against its growth rate. For 10 points each:

[10] Name this quantity, defined as the total amount of earnings an individual gains over a given time period.

ANSWER: **income**

[10] The elephant chart was co-developed by this Serbian-American economist and is discussed in his 2016 book *Global Inequality: A New Approach for the Age of Globalization*.

ANSWER: Branko **Milanović**

[10] In 2016, this economist delivered a keynote address called “After the Elephant Diagram.” This *New York Times* columnist and author of *The Conscience of a Liberal* is known for his work on international trade.

ANSWER: Paul (Robin) **Krugman**

<WN, Social Science - Economics>

10. According to the law of cross-cutting relationships, if an object cuts into these things, then the object necessarily must be younger than these things. For 10 points each:

[10] Name these layers of rocks and sediments that are the subject of four laws developed by Nicholas Steno, who is often said to be the “father” of the discipline named for them.

ANSWER: **strata** [or **stratum**; accept **stratigraphy**]

[10] Steno’s four laws of stratigraphy are used to determine a “relative” value for this concept. The use of isotopes such as carbon-12 is used to obtain a more precise value for this concept.

ANSWER: **age** [or **time**; or **date**; or **dating**]

[10] This is the simplest of Nicholas Steno’s laws, and states that strata on top of other strata are younger than the strata below them.

ANSWER: law of **superposition**

<IJ, Other Science - Earth Science>

11. In a TV miniseries episode titled “Footprints of a Follower,” this character is shown being defeated by the 18-year-old protagonist. For 10 points each:

[10] Name this wrestler, who for seven years was unbeaten throughout the towns from Umuofia to Mbaino. He has a feline nickname.

ANSWER: **Amalinze** the Cat [prompt on the **Cat**]

[10] The defeat of Amalinze the Cat is used to illustrate the prowess of Okonkwo at the beginning of this novel by Chinua Achebe.

ANSWER: ***Things Fall Apart***

[10] The first chapter of *Things Fall Apart* juxtaposes Okonkwo’s work ethic with that of this character, his lazy father, whose inaction brings shame to his family.

ANSWER: **Unoka**

<IJ, Long Fiction>

12. This man studied the Etruscan people and was the last known person to speak their language. For 10 points each:

[10] Name this Roman who surprisingly became emperor upon the assassination of his nephew Caligula.

ANSWER: **Claudius** [or Tiberius **Claudius** Caesar Augustus Germanicus]

[10] In his youth, Claudius wrote one of these works that was likely suppressed by his family for being too accurate. His childhood tutor Livy is best known for a work of this type.

ANSWER: **history** of Rome [or **history** of Augustus’s reign; accept equivalents]

[10] While serving in this office, Claudius added three letters to the Latin alphabet and gave a speech urging the Senate to admit members from Gaul. Cato the Elder was alternatively nicknamed for this office, as he spent his time in it trying to prevent the spread of Greek culture.

ANSWER: **censor** [or Cato the **Censor**]

<TR, Other History>

13. Answer the following about dishes that originated from upstate New York, none of which are “steamed hams,” for 10 points each.

[10] This city near Niagara Falls is the birthplace of the beef on weck sandwich, as well as a namesake preparation of chicken wings covered with hot sauce.

ANSWER: **Buffalo**

[10] According to some stories, a frustrated chef in Saratoga Springs accidentally created this food while serving Cornelius Vanderbilt. Regional brands of this food include Zapp’s in Louisiana and Herr’s in Pennsylvania.

ANSWER: potato **chips** [or **crisps**]

[10] Many restaurants in Rochester serve copies of this signature dish from Nick Tahou Hots, which consists of baked beans, macaroni salad, or French fries topped with an assortment of meats, onions, ketchup and sometimes hot sauce.

ANSWER: **Garbage Plate**

<KS, Other Academic>

14. Answer some questions about the work of organic chemist Gilbert Stork, for 10 points each.

[10] Like E. J. Corey, Stork conducted several of these procedures in which natural products are created from simple precursors.

ANSWER: **total synthesis** [prompt on “organic synthesis” or “natural product synthesis”]

[10] The Stork enamine reaction acts on alpha-beta-unsaturated examples of this functional group, which consists of a carbon double-bonded to an oxygen.

ANSWER: **carbonyl** [accept **aldehyde** or **ketone**]

[10] In the original formulation of the Stork enamine reaction, a Dean–Stark trap was used to remove this compound from the reaction. Titanium tetrachloride is a common scavenger for this compound.

ANSWER: **water** [accept **H2O**]

<Eric M, Chemistry>

15. The name for this period was influenced by a term used by Johann Joachim Winckelmann in *The History of Ancient Art in Antiquity*. For 10 points each:

[10] Name this artistic period generally held to have lasted from 1490 until the 1527 sack of Rome.

ANSWER: **High Renaissance** [do not accept or prompt on “Renaissance”]

[10] One of the most iconic paintings of the High Renaissance is *The School of Athens* by this student of Perugino.

ANSWER: **Raphael** [or Raffaello **Sanzio** da Urbino]

[10] This style that emerged towards the end of the High Renaissance is characterized by unusual poses and elongated proportions.

ANSWER: **Mannerism**

<WN, Painting>

16. In 1988, an extremely salty William Westmoreland criticized this general for suffering high casualties while waging guerrilla campaigns against more powerful enemies. For 10 points each:

[10] Name this commander in chief of the People’s Army of Vietnam who created the Ho Chi Minh trail.

ANSWER: Võ Nguyên **Giáp** (“VO n’win zap”)

[10] Giáp organized a massive hand transportation of artillery and anti-aircraft guns to besiege the French during this battle that ended the First Indochina War.

ANSWER: Battle of **Dien Bien Phu**

[10] After the Vietnam War ended, Giáp organized Vietnam’s overthrow of this totalitarian regime in another country that attempted to create a “Year Zero.”

ANSWER: **Khmer Rouge**

<TR, World History>

17. This phenomenon is caused by a combination of the exchange interaction and the spins in a material being aligned with each other. For 10 points each:

[10] Name this phenomenon exhibited by elemental iron, nickel, and cobalt, in which a material displays magnetic properties in the absence of a magnetic field.

ANSWER: **ferromagnetism**

[10] Pierre Curie discovered that ferromagnetism disappears above a critical value of this quantity.

ANSWER: **temperature**

[10] This quantity, the y -intercept of a ferromagnetic hysteresis loop, is the value of magnetization that persists after the material is removed from an external field; this value is thus a good metric for how strong a permanent magnet is.

ANSWER: **remanence** (“REM-uh-nence”) [or **remanent** magnetization]

<BB, Physics>

18. This instrument is given a sequential version of the main theme near the end of the exposition of *Danse macabre* (“donse mah-COB”). For 10 points each:

[10] Name this percussion instrument. In a later piece, Camille Saint-Saëns (“kah-MEE san-SAWNS”) used this instrument to quote that *Danse macabre* theme.

ANSWER: **xylophones**

[10] That quotation of *Danse macabre* appears in the “Fossils” movement of this suite, which uses a solo cello to depict “The Swan.”

ANSWER: *The **Carnival of the Animals*** [or *Le **carnaval des animaux***]

[10] In *Carnival of the Animals*, Saint-Saëns used this unusual instrument to help evoke an “underwater” sound in the movement “Aquarium.” Benjamin Franklin developed the modern form of this instrument, which is usually replaced by a glockenspiel or celesta.

ANSWER: **glass harmonica** [prompt on partial answer; or glass **armonica**; accept **musical glasses** or **water glasses**; or **bowl organ**]

<AWD, Music>

19. According to some accounts, this work made such an impression on David Hume that it awoke him from his “dogmatic slumbers.” For 10 points each:

[10] Name this 1787 book that attempts to show how synthetic *a priori* judgments are possible.

ANSWER: ***Critique of Pure Reason*** [or ***Kritik der reinen Vernunft***]

[10] The *Critique of Pure Reason* is the first of three critiques by this idealist German philosopher. He applied the categorical imperative to ethical philosophy in his later works.

ANSWER: Immanuel **Kant**

[10] In the *Critique of Pure Reason*, Kant uses a “table of judgments” to derive a table consisting of 12 of these groupings, which are concepts representing a mode of pure understanding.

ANSWER: **category** [or **categories**]

<IJ, Philosophy>

20. This poet's most recent work of criticism is 2017's *A Little Book on Form*. For 10 points each:

[10] Name this poet whose collection *Time and Materials* opens with the two-line poem "Iowa, January," which reads "In the long winter nights, a farmer's dreams are narrow. Over and over, he enters the furrow."

ANSWER: Robert **Hass**

[10] Hass has translated the work of the author of *The Captive Mind*, a Nobel-winning poet who wrote in this language. Hass has championed another Nobel-winning poet who wrote the collection *Calling Out to Yeti* in this language.

ANSWER: **Polish** [or **polski**] (Those poets are Czesław Miłosz and Wisława Szymborska.)

[10] The chapter on odes in Hass's *A Little Book on Form* includes an in-depth reading of this poet's "Ode to a Nightingale."

ANSWER: John **Keats**

<WN, Poetry>