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TOSSUPS:

1. In the Yale Law Journal, lawyer Lina Khan argued that this company should be subject to antitrust action, despite this company meeting the “consumer welfare” standard. Ro Khanna and Bernie Sanders introduced a Senate Bill whose acronym spells out the name of this company’s CEO, which influenced this company to raise its minimum wage to 15 dollars per hour. This company owns the websites (*) IMDb and Twitch. After widespread backlash in February 2019, this company cancelled their plans to open “HQ2” in New York, though plans for a complex in Northern Virginia are still underway. Web Services and the Prime membership program are operated by, for 10 points, what American e-commerce company, led by Jeff Bezos?

ANSWER: Amazon [accept Amazon.com]

<JM, Current Events>

2. The artificial Lojban language has a category of this grammatical concept called spatial that encompasses all traditional types of this concept. English does not make use of the hesternal, crastinal, and hodiernal types of this concept, which make reference to specific days. An Ancient Greek concept called the aorist combines this concept with an (*) aspect. Languages that lack this concept include Chinese and Malay. Benjamin Whorf caused the Hopi Time Controversy by noting that the Hopi language divides this concept into future and non-future categories. The suffix -ed (“ee-dee”) alters this for a regular English verb. For 10 points, name this grammatical category of verbs affected by the moment of speaking, which come in pluperfect, past and present types.

ANSWER: grammatical tense [accept tenses; accept specific type of tenses like past tense]

<JH, Linguistics>

3. Many nautical oddities can be found in the Shipwreck Museum on this state’s Fenwick Island, which it shares with a southern neighbor. The Twelve-Mile Circle, the only circular border in the United States, separates this state from its northern neighbor. The Christina River, named after a queen of Sweden, flows through this state’s largest city. The Winterthur Museum, a premier collection of 17th to 19th century American decorative art, was founded in this state by members of the (*) Du Pont family. 1209 Orange Street in this state’s largest city is the official address of hundreds of thousands of companies to take advantage of this state’s low corporate tax rate and lax financial regulations. Wilmington is the largest city in, for 10 points, what U.S. state whose capital is Dover.

ANSWER: Delaware

<TH, Geography>

4. An artistic movement partially named after this word has produced a work where skyscrapers are depicted as humanoid worm-like creatures; that work is titled *City Glow*. In one essay, Clement Greenberg argues that, while the “Old Masters” tried to break free of the limitations created by this property, Modernist painters have accepted this as a defining characteristic of their art. This property gives its name to a movement whose most famous artist created a work where a bear rockets away from a (*) university; that work is the album cover for Kanye West’s *Graduation*. “Super” proceeds this word in the name of a movement founded by Takashi Murakami. For 10 point, name this quality of paintings related to their two-dimensionality.

ANSWER: flatness [accept Superflat; prompt on super before “Clement Greenberg”] (The painting mentioned in the first sentence is by Chiho Aoshima)

<TM, Painting>

5. The Holdridge Life Zone classification delineates between regions of this quantity along the base of its triangle. Aßmann (“ahs-mahn”), whirling, and swing are all types of instruments that use two different thermometers to measure this quantity. The point at which the wet bulb and dry bulb temperatures intersect on a psychrometric chart gives the (*) relative measurement of this quantity. The higher this quantity is, the closer the dew point is to the actual air temperature. A strand of hair can be used as a hygrometer, which is an instrument that measures this quantity. For 10 points, what quantity is often reported by meteorologists as the percentage of water vapor in the air?

ANSWER: humidity [accept relative humidity; accept absolute humidity; accept specific humidity]

<JS, Other Science Earth Science>

6. Harrington’s Rules provide rough guidelines for the survival lifetimes of these objects based on moisture and temperature. These objects are divided into orthodox and recalcitrant categories based on their behavior in drying and freezing processes. Nikolai Vavilov establish a facility dedicated to the preservation of these objects, which survived the Siege of Leningrad. The doctrine of patent exhaustion was found to not support a (*) farmer’s right to reproduce these objects in *Bowman v. Monsanto Co.* These objects may be dispersed by hydrochory or anemochory. Banks around the world, like a “global” one on Svalbard, preserve the biodiversity of these objects, whose Roundup Ready variety is herbicide resistant. For 10 points, what hard embryos sprout and grow into plants?

ANSWER: seeds [accept more specific answerline like angiosperm or gymnosperm seeds]

<JS, Other Academic>

7. On December 16, 2002, the Miami Heat controversially distributed over 8000 of these food items to promote its home game featuring a new player on the Houston Rockets. A 1983 mock trial at the San Francisco Court of Historical Review held this food was an American invention for not being similar enough to the *tsujiura senbei* (“SUE-jee-URA sin-BUY”). Anna and Tess’ bodies are swapped after they consume one of these foods in the movie (*) *Freaky Friday*. A common joke involves appending the phrase “in bed” to the statements suggested by these food items. For 10 points, name this food item which contain a set of lucky numbers and wholesome aphorism inside, usually given out at Chinese restaurants.

ANSWER: fortune cookies

<LL, Pop Culture Mixed>

8. A piece in this genre opens with the brass playing a descending fortissimo sequence (*read slowly*) F D-flat C B-flat, twice. The first movement of another piece in this genre opens with a timpani roll before the soloist enters with a series of descending minor seconds and thirds. Nicolai (*) Rubinstein abhorred Tchaikovsky’s first draft of a B-flat major piece in this genre, which was premiered in Boston with Hans von Bulow as the soloist. Robert Schumann’s only work in this genre feature the motif C-H-A-A, which is the Italian spelling of “Clara,” that piece inspired Greig’s only work in this genre, which is in A minor. For 10 points, name this genre that features a keyboard instrument with orchestral accompaniment.

ANSWER: piano concerto [prompt on concerto]

<LL, Classical Music>

9. A “free” form of this process causes an increase in entropy equal to $n \cdot R$ times the natural log of final volume over initial volume. At temperatures below $2 \cdot a$ over $b \cdot R$, this process results in a decrease in temperature for a van der Waals (“vahls”) gas. Above the point where the Joule-Thomson coefficient is zero, gases undergoing this process get warmer. One form of this process follows adiabatic (*) compression in the Carnot (“car-noh”) cycle. When a gas undergoes this process, the work done by the gas is positive. The decrease in pressure as a result of this process is described by Boyle’s law. For 10 points, what is this process by which a gas increases in volume?

ANSWER: gas expansion [accept free expansion or Joule expansion; accept Joule-Thomson expansion; accept isothermal expansion]

<JS, Chemistry>

10. The Chinon Parchment, discovered in the Papal Archives in 2001, revealed that a member of this group who was executed actually was absolved of crimes by the Pope before his death. Innocent II's bull "Omne Datum Optimum" gave this group extraordinary privileges, including being exempted from all authority other than the Pope. While being commanded by Odo de St. Amand, this group allied with (*) Baldwin IV to win the battle of Montgisard. This group's founder Hughes de Payens was its inaugural Grand Master, a title held by a later leader who was burned alive on the orders of Philip the Fair, who was deeply in debt to this group. For 10 points, name this organization led by Jacques de Molay, whose uniforms included a characteristic white mantel with a red cross.

ANSWER: Knights Templar [accept Poor Fellow-Soldiers of Christ and of the Temple of Solomon; accept Order of Solomon's Temple]

<DG, European History>

11. A character created by this author exclaims "I adore hashed brown potatoes" before agreeing to marry Roberta II, who has three noses. This author of *Jack, or The Submission* also wrote a play in which the maid Mary reveals that Donald and Elizabeth are not who they claim they are, before announcing her real name is Sherlock Holmes. A group of people who share the name Bobby Watson are discussed by Mr. and Mrs. (*) Smith before they are visited by the Martins in that play by this author. This author's recurring character Berenger appears in a play in which he refuses to transform into the title animal. The Fire Chief appears in *The Bald Soprano*, a play by, for 10 points, what Romanian absurdist playwright of *The Rhinoceros*?

ANSWER: Eugene Ionesco

<JH, Drama>

12. While this event was the subject of a primary account by Theodore Bliss, a much more biased narrative described it as a "Late Unhappy Disturbance." Tensions flared prior to this event following the death of the young Christopher Seider. The cudgel-wielding innkeeper Richard Palmes likely influenced this event's severity by hitting Hugh Montgomery on the arm. A famous (*) depiction of this event features the sarcastic comment "Butcher's Hall" upon a row of buildings, and was inspired by an earlier engraving by Henry Pelham. Following this event, John Adams defended Thomas Preston and his subordinates in court. Paul Revere made an engraving of, for 10 points, which 1770 event in which British soldiers fired upon a crowd in a New England city.

ANSWER: Boston Massacre [accept Incident on King Street from Tory sympathizers; prompt on "the Horrid Massacre"; prompt on "the Late Unhappy Disturbance" before mentioned]

<TH, American History>

13. According to Nonnus, these figures were created after Zeus ejaculated onto Cyprus. Examples of these figures include the lovers Hylonome and Cyllarus. A different origin story of these figures is that the Hera-shaped cloud Nephele gave birth to them. Two of these figures named Hylaeus and Rhoecus were killed by (*) Atalanta after they tried to rape her. One of these figures had to give up his immortality in exchange for Prometheus's freedom after being struck by a poison arrow. One of these figures named Amycus killed the Lapith Celadon at the wedding of Pirithous. The most famous one of these figures trained heroes like Achilles, Jason and Heracles. For 10 points, name the race that includes Chiron, a group of human-horse hybrids.

ANSWER: Centaurs

<JH, Mythology>

14. A soprano aria by this composer begins with the descending quarter notes (read slowly) E-flat D-flat B-flat A-flat. A tenor aria by this composer from a different opera closes *The Three Tenors Live in Concert*, the best selling classical recording of all time. The title character of an opera by this composer sings about how the life of her lover Mario is in the hands of (*) Baron Scarpia in the aria "Vissi d'arte" or "I lived for art." This man composed an opera in which Prince Calaf sings "None shall sleep" or "Nessun dorma" as the subjects of the title princess search for his name. For 10 points, name this Italian opera composer who wrote *Tosca* and *Turandot*.

ANSWER: Giacomo Puccini

<DG, Opera>

15. An enzyme that removes this functional group from glycogen synthase to stimulate glycogen synthesis is suppressed by Inhibitor 1 and Inhibitor 2. C·A·K transfers this functional group to the T loop during the activation of a class of enzymes that transfer this functional group to retino-blastoma protein, allowing the cell to initiate S phase. In the first step of (*) glycolysis, this group is transferred to glucose by hexo-kinase, trapping the glucose within the cell. Many cellular processes are driven by the energy released when one of these groups is transferred from ATP, which contains three of these groups. For 10 points, name this group containing one phosphorus atom and four oxygen atoms.

ANSWER: phosphate [accept phosphoryl]; accept P·O·4·3 minus; accept P·O·3·2 minus; do not accept “phosphite”] (The first referenced enzyme is protein phosphatase 1 or PP1)

<JS, Biology>

16. An author with this assumed surname wrote about the shellshocked Chris Baldry in the World War I novel *The Return of the Soldier*, and wrote the Aubrey Trilogy of autobiographical novels that began with *The Fountain Overflows*. That author of this surname also wrote a 1100 page account of her travels through Yugoslavia called *Black Lamb and Grey Falcon*. A different author of this surname wrote about an artist who tries to depict “the people who come to California to die” in his hypothetical painting *The (*) Burning of Los Angeles*. A character created by an author of this surname is tormented by the editor Shrike while working as a newspaper advice columnist. For 10 points, give the surname of the author of *The Day of the Locust* and *Miss Lonelyhearts*.

ANSWER: West [accept Rebecca West; accept Nathaniel West; accept Fairfield or Dame Cicily Isabel Fairfield before “California” is read]

<TH, Mixed Lit>

17. Sperling et al. found that using a visual grid enhanced this ability through a partial report procedure. Atkinson and Shiffrin developed the Multistore model of this ability. Alan Baddeley developed a model of this phenomenon consisting of a visuo-spatial sketchpad and a phonological loop. It’s not learning, but a classic study of this faculty involved the use of (*) meaningless consonant-vowel trigrams and noted an exponential rate of the failure of this faculty. Hermann Ebbinghaus’s namesake curve measures the failure of this faculty, which comes in episodic and semantic types. For 10 points, name this cognitive faculty, the ability to retrieve stored information.

ANSWER: memory [accept recall; accept working, short-term, long-term, sensory, episodic, or semantic memory; accept forgetting before “failure” is read]

<TH, Psychology>

18. A poet used this language to write a poem ending “I am not taking away a single cloud;” that 1928 poem on taking leave of Cambridge is engraved on a stone near King’s College. An ancient poem written in this language juxtaposes an image of ospreys on an islet against an image of a “good young lady” who is a “fine mate” for a lord. Sections of an ancient collection of poetry in this language include (*) “Nine Changes” and “Nine Regrets.” A “lion-eating poet” is described in a poem in this language which makes use of only the word *shi* with multiple tones. *The Book of Songs* includes poetry written in this language. For 10 points, name this language whose poetry names a collection included among its country’s Five Classics, and which was used by poets such as Wang Bao.

ANSWER: Chinese [accept classical Chinese; accept Yue or Mandarin Chinese]

<TH, Poetry>

19. This physicist and Thomas Hertog developed a description of eternal inflation in terms of the gauge-gravity duality that does not break down like the slow roll model. This physicist applied the Bogoliubov transformation to translate between coordinate systems in the derivation of an effect analogous to the Unruh effect for observers at infinity. The power of that phenomenon named for this physicist is $h\bar{c}^2$ over $15,360$ times π , (*) G -squared, M -squared. This physicist predicted that the negative particle in a particle-antiparticle pair would reduce the mass of black holes while the positive particle is seen as his namesake radiation. For 10 points, an anecdote featuring the phrase “it's turtles all the way down!” opens *A Brief History of Time* by what British physicist?

ANSWER: Stephen William Hawking [accept Hawking radiation] (the first clue comes from Hawking's last paper before his death)

<LL, Physics>

20. D.I. Pisarev claimed that the protagonist of this novel had no choice but to perform a heinous deed in a contemporary review titled “The Struggle for Life.” A character in this novel puts on then immediately removes a bloody sock, which he discovers after finding a hole in his shoe. After falling asleep in some bushes, the protagonist of this novel dreams of a group of men (*) beating a horse for failing to pull a cart. In this novel, Marfa Petrovna mysteriously dies and visits her husband as a ghost. A character in this novel is framed for the theft of a one-hundred ruble bill, and the protagonist is arrested for the murder of a pawnbroker. For 10 points, name this novel in which Raskolnikov murders Alyona Ivanova with an axe, a work of Fyodor Dostoevsky.

ANSWER: Crime and Punishment [or Prestupléníye i nakázániye]

<LL, Long Fiction>

21. Mortimer Planno helped negotiate this figure's passage through a crowd of one hundred thousand people, several of whom claimed to see stigmata on his hands. A trip made by this figure is celebrated as Grounation Day, the second holiest day in a certain religion after the Transfiguration Day of this man, which is celebrated with an ital meal. Members of a certain religious group moved to Shashamane (“shash-uh-main”), land that this man donated for (*) repatriation. Many in a certain faith deny this man's 1975 death, though others claim that he was only an avatar of Jah. Rita Marley converted to a religion inspired by this man during his state visit to Jamaica. For 10 points, name this Ethiopian emperor who was born Ras Tafari.

ANSWER: Haile Selassie [accept Ras Tafari before mentioned]

<BK, Religion>

22. A widely-used classification system for these objects was developed by Ewart Oakeshott. The names Ingelrii and Ulfberht can be found on many older versions of these objects, which could be utilized in a somewhat-backwards technique known as *mordhau*. One of these objects was damaged at Kiev's Golden Gate. Szczerbiec (“Sh-tsh-AIR-bee-ets”) is one of these objects, whose variants include the *katzbalger* and the (*) claymore. Quillions and pommels are parts of these weapons, whose “bastard” variety could be utilized with a shield, unlike the *Zweihänder* type, which required both hands. For 10 points, which type of weapon includes rapiers, cutlasses, and sabers?

ANSWER: swords [accept variants such as greatsword, broadsword, and longsword; prompt on blades; do NOT accept or prompt on “dagger”]

<TM, Other History>

23. This man wrote a document in which he claimed that slave owners should have absolute power over their slaves during his patronage under Anthony Cooper. This thinker criticized metaphysicians for making up meaningless words and those who attempt to shift the meaning of existing words in chapter 10 of his most famous work. According to this philosopher's definition of free will, a man in a (*) locked room is not free even if he has no intention of leaving. This philosopher proposed that all people have the rights to life, liberty, and property in his *Second Treatise on Government*. For 10 points, name this English philosopher who proposed that our mind are a “blank slate” at birth in his *An Essay Concerning Human Understanding*.

ANSWER: John Locke

<LL, Philosophy>

24. One leader of this ethnic group was fond of using an analogy concerning the uselessness of a two-wheeled cart with one broken wheel to explain the importance of equality in marriage. A Jack Weatherford work named for these people's "*Queens*" describes the phrase "Let us reward our female offspring," one of a few surviving phrases from the removed chapter of a "Secret" historical source regarding these people, who included a woman named (*) Borte ("BORE-tay"). The inspiration for *Turandot* was a noblewoman of this ethnic group named Khutulun, a champion wrestler who would stake her hand in marriage against 100 horses of her challengers. For 10 points, name this ethnic group, whose women commonly performed household tasks within *yurts* on the Central Asian steppe.

ANSWER: **Mongols** [accept **Mongolians**] (The leader referenced in the first line is Genghis Khan)
<TM, World History>

BONUSES:

1. Lewis Henry Morgan used several Native American groups like the Iroquois and the Crow as examples in his classification of this type of system. For 10 points each:

[10] Give this term from anthropology which can be defined as the web of social relationships among individual humans. Social scientists studying systems of this type often construct trees where circles represent females and triangles males.

ANSWER: **kinship** [accept **kinship** systems]

[10] Anthropologists studying kinship are often interested in defining the extent these units. “Nuclear” types of these units include the mother, father and one or more children.

ANSWER: **families** [accept nuclear **family**]

[10] In Morgan’s kinship system named for people from this culture, all members of one’s own generation are called brothers and sisters. This peoples’ alphabet contains only 13 letters, including a glottal stop called an ‘okina.

ANSWER: **Hawaiian** [accept **Hawaiian** kinship or **Hawaiian** language; prompt on **Polynesian**]

<TH, Anthropology>

2. GNU (“guh-new”) Hurd is an early example of this type of software. For 10 points each:

[10] Name this type of software that interfaces between user software and hardware resources. This software component is responsible for I/O (“I-O”), memory management, and inter-process communication.

ANSWER: **operating system** [or **OS**; anti-prompt on BUT DO NOT REVEAL **microkernels** with “What type of program is a microkernel?”]

[10] This core portion of an O-S is contrasted with user space, and the entirety of the O-S is in this space in monolithic designs. GNU Hurd is an example of an O-S architecture in which this region is very small.

ANSWER: **kernels** [or **kernel** space; accept **microkernels**]

[10] This O-S has a hybrid kernel design with environment subsystems in user space that emulate other operating systems. The newest version of this O-S added the personal assistant Cortana and the Edge browser.

ANSWER: Microsoft **Windows** [accept **Windows 10**]

<JS, Other Science CS>

3. In an event known as the Return of the Heracleidae, this ethnic group was said to have allied with the descendants of Heracles in order to take back land in the Peloponnesus. For 10 points each:

[10] Name this ethnic group. Thucydides described the Peloponnesian War as “Ionians fighting against [these people],” who have been linked to the mysterious Sea Peoples after their namesake “Invasion” led to the downfall of the Mycenaean.

ANSWER: **Dorians** [accept **Dōrieis**; accept **Doric** people; prompt on **Greeks**, **Hellenes**, or word forms thereof]

[10] Idioms in Doric Greek saw sporadic usage in this warlike city-state of ancient Greece that utilized the *agoge* system to train its young men.

ANSWER: **Sparta** [accept **Lacedaemon**; accept **Sparte**; accept **Lakedaimon**]

[10] The theory connecting the invasion of the Dorians to the descendants of Heracles was largely put forth by this second-century Greek historian in his main surviving work, *Description of Greece*.

ANSWER: **Pausanias**

<TH, Ancient History>

4. This philosopher formulated the idea that every text is an “intertext” that is an intersection of numerous texts and exists only through its relations with other texts. For 10 points each:

[10] Name this philosopher who introduced intertextuality in “Word, Dialogue, and Novel.” She explored notions of “abjection” in her book *Powers of Horror*.

ANSWER: Julia **Kristeva**

[10] To Kristeva, language’s meaning arises when both the symbolic aspect and this aspect of language, that which shows the speakers unconscious drives, are together. Her use of this term is distinct from its usual significance as the study of how meaning is created and communicated via signs.

ANSWER: **semiotics** [accept **semiotic** studies]

[10] In her book titled for this literary form, Kristeva advances the position that it uses the semiotic content of language to subvert language’s symbolic content. In his essay titled “Can an Analytic Philosopher Read [this form],” Simon Blackburn discusses examples of it like Ovid’s *Metamorphoses* and Keats’ “Ode on a Grecian Urn.”

ANSWER: **poetry** [accept **poems**]

<JS, Philosophy>

5. For 10 points each, answer the following about the aerodynamics of a wing:

[10] The lift coefficient for a wing is a linear function of this angle, and the lift coefficient is maximized at this angle’s critical value. The direction of airflow and a chord through the wing determine this angle.

ANSWER: angle of **attack**

[10] Past the critical angle of attack, the lift coefficient drops off sharply and this region separates from the wing, making the wing’s effective shape change drastically. This region is the thin layer of fluid near the surface where the flow velocity changes from zero to the free stream value.

ANSWER: **boundary layer**

[10] This force can be induced by lift when the lift force vector is tilted backwards. Motion through a fluid is opposed by this force that, unlike friction, varies with the square of velocity.

ANSWER: **drag** [accept **air resistance** or **fluid resistance**]

<JS, Physics>

6. David Farnsworth was hanged during the American Revolutionary War as part of a British plot centered around this stuff, one aspect of which involved the transportation of this thing by men known as “shovers.” For 10 points each:

[10] Name this thing, which went by the term “Continental” in early America. Other small varieties of this thing were referred to as “shinplasters.”

ANSWER: paper **currency** [accept **money**, **cash**, **bills**, or other terms indicating things that represent value in financial exchange; do NOT accept or prompt on “coins”]

[10] A financial crisis occurred in the Republic of Texas when Mirabeau Lamar tried to pay off national debt using this currency, informally named for their “burnt orange” color derived from poor ink quality.

ANSWER: Texas **redbacks** [prompt on **Texas dollar**]

[10] Some contemporary varieties of American currency are “notes” named for this central banking system of the U.S., which has been headed by figures such as Alan Greenspan and Ben Bernanke.

ANSWER: **Federal Reserve** System [accept “The **Fed**”]

<DG, American History>

7. Identify some New Testament figures from stories that almost certainly never happened. For 10 points each:

[10] According to one story, this Biblical woman approached Tiberius Caesar and claimed that Jesus had risen. While making her plea her lunch turned red, resulting in the first Easter Egg.

ANSWER: **Mary Magdalene** [prompt on Mary; do not accept or prompt on “the Virgin Mary”]

[10] This “doubting” apostle is believed to have sailed to India and established an early church there; thus Catholics venerate this Apostle as the Patron Saint of India.

ANSWER: Saint **Thomas**

[10] This Apostle is thought to have been crucified on a namesake X-shaped cross. Another story tells that instead of being crucified he was spirited away to Scotland, where he is the patron saint.

ANSWER: Saint **Andrew**

<BK, Mythology>

8. Operation Grief outfitted English-speaking Germans behind Allied lines with American uniforms and badges, resulting in checkpoints where soldiers would be grilled on American life. For 10 points each:

[10] This British Field Marshall had his Jeep tires shot out after refusing to show identification papers at one such checkpoint. This man was victorious against Erwin Rommel at the Battle of El Alamein.

ANSWER: Bernard **Montgomery**

[10] This general was imprisoned by a G.I. after “failing to identify the capital of Illinois” after a G.I. thought it was Chicago. The last 5 star general in the US Army, this man became the first Chairman of the Joint Chiefs of Staff for Truman and Eisenhower.

ANSWER: Omar Nelson **Bradley**

[10] Operation Grief happened at this battle in the Ardenne forest region of Belgium, which also saw the Malmedy Massacre and the killing of the Wereth 11. This battle is named for an odd concave shape formed by the Allied front line.

ANSWER: Battle of the **Bulge** [prompt on Ardenne Counteroffensive]

<BK, European History>

9. A 2005 genome-wide association, or GWA (“gee wah”), study by Klein et al. found that a variant in the complement factor H gene is associated with this disease. For 10 points each:

[10] Give this disease which can be caused by blood vessels in the choroid leaking fluid into the namesake area. Photodynamic therapy and anti-V·E·G·F drugs are used to treat one form of this disease.

ANSWER: age-related **macular degeneration** [accept **AMD** or **ARMD**; accept wet **macular degeneration**, wet **AMD**, or wet **ARMD**; accept dry **macular degeneration**, dry **AMD**, or dry **ARMD**]

[10] A GWA study will commonly report the minor allele frequency and linkage disequilibrium of these genetic markers. These variations in a single base pair of D·N·A can also be used in forensics and paternity tests.

ANSWER: **single nucleotide polymorphisms** [or **SNPs** (“snips”)]

[10] In 2000, Barrett et al. performed a meta-analysis of GWA studies of the type 1 form of this disease. Patients with this disease suffer from a lack of insulin and/or insulin resistance.

ANSWER: **diabetes** mellitus [accept type 1 **diabetes** mellitus; accept type 2 **diabetes** mellitus; do NOT accept “diabetes insipidus”]

<JS, Biology>

10. Answer some questions about Latin American dictator novels, for 10 points each:

[10] In this Miguel Asturias novel, the title character imprisons his advisor Miguel Angel Face after the death of General Canales.

ANSWER: *El **Señor Presidente*** [or ***Mister President***]

[10] Another dictator novel is this author's *The Feast of the Goat*, in which conspirators assassinate Rafael Trujillo ("true-HE-yo"). Another novel by this author details the plots of soap operas written by Pedro Camacho, who works for Radio Panamericana.

ANSWER: (Jorge) Mario (Pedro) **Vargas Llosa** [prompt on partial answer] (that novel is *Aunt Julia and the Scriptwriter*)

[10] This Colombian author fictionalized the presidency of Gustavo Rojas Pinilla ("goo-STAHV-oh ROE-has pin-EE-yah") in *The Autumn of the Patriarch*. He also wrote *One Hundred Years of Solitude*.

ANSWER: Gabriel **García Márquez** [prompt on partial answer]

<MM, Long Fiction>

11. Answer the following about intermolecular forces, for 10 points each:

[10] This phenomenon is the attraction between like molecules. A convex meniscus forms in a glass tube when this phenomenon is stronger than adhesion to glass.

ANSWER: **cohesion** [accept **cohesive forces**]

[10] London dispersion forces are caused when molecules temporarily possess non-zero values of this quantity. This quantity for a molecule is equal to the sum over each atom's charge times its position vector.

ANSWER: electric **dipole moment** [accept bond **dipole moment**; accept molecular **dipole moment**]

[10] The ability to induce dipole moments is dependent on this quantity, the amount a molecule's electron distribution changes in the presence of an electric field. The greater the number of electrons in the molecule, the higher this quantity is for the molecule.

ANSWER: **polarizability**

<JS, Chemistry>

12. On March 21st, 2019, this occurrence was pushed back three weeks to April 11th, but only if Parliament accepts Theresa May's proposed deal. For 10 points each:

[10] Name this occurrence, the subject of a June 2016 referendum. This occurrence, which is scheduled to happen May 22nd, 2019 at the latest, involves a country leaving the European Union.

ANSWER: **Brexit** [accept answers indicating the **United Kingdom** or **Britain** leaving the European Union]

[10] This possible "version" of Brexit involves the UK also leaving the EU Single Market and Customs Union. This type of Brexit would necessitate a trade deal between the UK and the EU.

ANSWER: **hard** Brexit [accept "**no-deal**" Brexit]

[10] A hard Brexit would also endanger this agreement, which brought an end to The Troubles in Northern Ireland.

ANSWER: **Good Friday** Agreement [accept **Belfast** Agreement]

<JM, Current Events>

13. Anne Boleyn probably inspired a poem by this writer which concludes by describing the words “Noli me tangere, for Caesar’s I am” spelled out in diamonds around his lover’s neck. For 10 points each:

[10] Name this poet who wrote in the court of Henry VIII. He compared women to deer in poems like “Whoso List to Hunt” and “They Flee from Me.”

ANSWER: Thomas **Wyatt**

[10] Wyatt and Henry Howard, Earl of Surrey are credited with bringing this form to popularity in English poetry. William Shakespeare's poems in this form include “Let me not to the marriage of true minds” and “Shall I compare thee to a summer’s day?”

ANSWER: (English) **sonnets** [accept Shakespearean **sonnets**]

[10] Another 16th century English poet known for sonnets was this man, who wrote 88 love sonnets to Elizabeth Boyle in his *Amoretti*. He also wrote an epic poem which features characters like Gloriana and the Redcrosse Knight.

ANSWER: Edmund **Spenser**

<TH, Poetry>

14. The threatening of American sugar interests following the lynching of this country’s president Vilbrun Guillaume Sam directly prompted the 1915 occupation of this country by the United States. For 10 points each:

[10] Name this Caribbean country, once known as Saint-Domingue, that had earlier experienced a successful slave revolt under Toussaint Louverture.

ANSWER: Republic of **Haiti**

[10] Between 1957 and 1986, a secret police in Haiti known as the *Tonton Macoute* was controlled by a father-son pair of dictators with this last name, commonly referred to by the nicknames “Papa Doc” and “Baby Doc.”

ANSWER: **Duvalier** [accept François **Duvalier**; accept Jean-Claude **Duvalier**]

[10] With a name deriving from a type of bird that liked to hide under leaves, these other, less organized Haitian military bodies, largely failed to offer successful resistance against the U.S. occupation of Haiti, during battles at Fort Dipitie and Fort Riviere.

ANSWER: **Cacos**

<TM, World History>

15. Identify some things about people who allegedly died of laughter. For 10 points:

[10] Scottish writer Thomas Urquhart supposedly died of laughter after hearing about the restoration of Charles II. Urquhart is best known today for his English translation of this Francois Rabelais novel about two giant intellectuals.

ANSWER: **Gargantua and Pantagruel** [or *La vie de Gargantua et de Pantagruel*]

[10] This Greek painter of the 5th century BCE supposedly died after choking while laughing at an ugly old woman he painted. This man also apocryphally selected the best features of five different models for his composite painting of Helen of Troy.

ANSWER: **Zeuxis** of Heraclea

[10] The soothsayer Calchas died while laughing at a prophecy about not being able to drink some wine sitting right in front of him. Calchas earlier worked with the Greeks in this semi-legendary conflict, which is the subject of *The Iliad*.

ANSWER: the **Trojan** War

<TH, Mixed Academic>

16. Eduard Remenyi (“ray-MEN-yee”), a violin virtuoso from this country, was touring across Germany with a romantic composer when that composer met Joseph Joachim and the Schumanns, kickstarting his fame. For 10 points each:

[10] Name this country whose rhythms inspired the *Rondo alla Zingarese* (“zin-GAH-ress-EH”) fourth movement of a German composer’s Piano Quartet Number 1 in G minor. The same composer later wrote a set of 21 piano four hands dances based on the music of this country.

ANSWER: **Hungary** [accept **Hungarian** Dances]

[10] Name that German composer whose lifelong interest in gypsy rhythms led to his *Hungarian Dances*. He is also known for his *Lullaby*, *A German Requiem*, and four symphonies.

ANSWER: Johannes **Brahms**

[10] Brahms used this tempo marking in many of his gypsy inspired works, including the fourth movement of his Piano Quartet 1 and his 12th Hungarian Dance. This very, very fast tempo marking usually indicates BPMs between 168 and 200.

ANSWER: **presto** [accept **prestissimo**]

<TH, Classical Music>

17. In one story by this author, a writer named Janice visits a planetarium to clear her head in anticipation of her father’s upcoming surgery. For 10 points each:

[10] Name this author of “The Moons of Jupiter,” a 2013 Nobel Laureate. This author also wrote the collections *Hateship, Friendship, Courtship, Loveship, Marriage* and *Dear Life*.

ANSWER: Alice **Munro**

[10] Alice Munro is an author from this country. Another author from this country, Margaret Atwood, wrote about Offred in her novel *The Handmaid’s Tale*.

ANSWER: **Canada**

[10] In this other Atwood novel, Snowman has flashbacks to his time as a boy named Jimmy. This novel’s two title characters are a bioengineer at RejoovenEsence and a prostitute.

ANSWER: **Oryx and Crake**

<CW, Mixed Lit>

18. This country’s town of Oostduinkerke (“ohst-dun-CARE-kuh”) is home to the last group of horseback shrimpers in Europe, known for riding draft horses through the surf while dragging nets. For 10 points each:

[10] Name this country whose other odd traditions include the procession of a relic of Christ’s blood around the city of Bruges (“brooj”) and the tradition of tossing cats off a church belfray in Ypres (“EE-pray”) during an annual festival.

ANSWER: **Belgium**

[10] Another animal related festival in Belgium is the bear festival of Andenne (“on-DEN”), a town in this region of southern Belgium. Citizens of this region mostly speak French unlike those in Flanders who speak Dutch.

ANSWER: **Wallonia**

[10] Besides being high spots from which to throw cats, Belgian belfrays often contain these large musical instruments, which have their origins in the Low Countries. These sets of bells are often played using stick-like pedals called batons.

ANSWER: **carillons**

<TH, Geography>

19. This author's artistic and civil rights work was the subject of her friend Nina Simone's song "To Be Young, Gifted, and Black." For 10 points each:

[10] Name this activist and playwright whose most famous play deals with racial segregation in Chicago through the eyes of the Younger family.

ANSWER: Lorraine **Hansberry** (that play is *A Raisin in the Sun*)

[10] This other black playwright also set his play *Ma Rainey's Black Bottom* in Chicago, though he is better known for setting plays like *The Piano Lesson* and *Fences* in Pittsburgh.

ANSWER: August **Wilson**

[10] This contemporary of Hansberry also wrote about issues of race in his play *Dutchman* and has courted controversy with his 9/11 poem "Somebody Blew Up America."

ANSWER: Amiri **Baraka** [accept Everett LeRoi **Jones**; accept Imamu Amear **Baraka**]

<TH, Drama>

20. The physical movement of Raj Kapoor's character in the classic Bollywood film *Awaara* are inspired by this recurring silent film character. For 10 points each:

[10] Name this character who wore baggy pants and a small bowler hat in films like *The Kid* and *City Lights*. This character's creator symbolically retired this character after showing him walking down a road away from the camera in 1936's *Modern Times*.

ANSWER The Little **Tramp**

[10] The Tramp was created by this silent era director who satirized Hitler in *The Great Dictator*.

ANSWER: Charlie **Chaplin** [accept Charles Spencer **Chaplin**]

[10] Monsieur Hulot was another clown-like common man character inspired by Chaplin's Tramp. Hulot was played by this French actor-director in films like *Playtime* and *Mon Oncle*.

ANSWER: Jacques **Tati**

<TH, Film>

21. A kinked demand curve is characteristic of this market structure. For 10 points each:

[10] Name this type of market structure in which there is a small number of sellers for a given good. Prices in these situations are usually lower than in monopolies because of small amounts of competition.

ANSWER: **oligopoly** [or **oligopolies**]

[10] Classically, all firms in oligopolies must have this distinction, which is the ability to profitably raise the price of a good above that of the marginal cost. In perfect competition, firms do not have this distinction.

ANSWER having **market power**

[10] When firms in an oligopoly collude to fix prices or limit supply, the situation is referred to by this term. Economics textbooks often cite OPEC as an example of this type of entity for manipulating oil prices.

ANSWER: **cartel**

<TH, Economics>

22. A bride and groom lean toward a giant chicken in a Marc Chagall painting set in this city. For 10 points each:

[10] Name this city, also the setting of Chagall's *Self-Portrait with Seven Fingers*. A green lamppost bisects a 1877 painting set in this city by a different artist.

ANSWER: **Paris**, France

[10] *Paris Street; Rainy Day* is by this French artist, who also painted three shirtless men scraping the floor in the appropriately titled *The Floor Scrapers*.

ANSWER: Gustave **Caillebotte** ("KAI-boat")

[10] Caillebotte was a member in this art movement, which is named after a painting of the sunrise at the port of Le Havre by Claude Monet. Characteristics of this movement include small but visible brush strokes and unusual angles.

ANSWER: **impressionism**

<LL, Painting>

23. For 10 points each, answer the following about video game designer Hideo Kojima:

[10] Kojima's best known work in the U.S. is this game series. In the first entry in this series, Big Boss sends Gray Fox and Solid Snake to destroy one of the namesake machines being built in Outer Heaven.

ANSWER: **Metal Gear** [accept **Metal Gear Solid**; accept **MGS**]

[10] Kojima produced the *Boktai* series, which made players go outside to charge solar weapons to fight against these creatures. Gabriel Belmont, who was redesigned by Kojima for a 2010 reboot of a different series subtitled *Lords of Shadow*, becomes one of these creatures after defeating Camilla.

ANSWER: **vampire** [*Lords of Shadow* is an entry in the *Castlevania* series]

[10] Kojima is directing this upcoming game that follows the delivery man Sam who is portrayed by Norman Reedus. The E3 2018 trailer for this game shows Sam using a light and a fetus in an attempt to ward off shadow beings.

ANSWER: **Death Stranding**

<JS, Pop Culture Games>

24. The doctrine of the Catholic Church is discussed and decided upon at ecumenical councils. Answer some questions about them for 10 points each:

[10] The date of Easter and the heretical nature of Arianism were two major decisions made at this first Ecumenical Council convened by Constantine I. It produced a namesake "creed" recited at Catholic Masses.

ANSWER: Council of **Nicea** [accept **Nicene** Creed]

[10] This ecumenical council produced the controversial and papally unrecognized Canon 28, which declared that the See of Constantinople had the same patriarchal status as the See of Rome. A "Definition" named for this council declared Christ was "perfect both in deity and in humanness."

ANSWER: Council of **Chalcedon** [accept the **Fourth** Ecumenical Council; accept **Chalcedonian** Definition]

[10] Pope Paul VI closed this most recent Ecumenical Council, after which vernacular languages have been used instead of Latin in Mass.

ANSWER: **Second Vatican** Council [accept **Vatican II**]

<DG, Religion>