Harvard Fall Tournament X

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And with thanks to Will Holub-Moorman, MIT Quiz Bowl, and various playtesters



Round 1

Tossups

1. Munera were typically events involving these people, and they were attributed as swearing to be "burned, bound, [and] beaten." These people attended a ludus, which was then guided by a lanista. The murmillo was an example of these peoples, as was the retiarius, who notably used a net. (*) The emperor Commodus often moonlighted as a member of this profession. The "turned thumb" referenced their profession, and Spartacus was previously a specific kind of these people before leading his revolt. For 10 points, name this group of slaves forced to fight for the entertainment of Roman citizens.

ANSWER: gladiators (prompt on "slaves")

2. This figure's Etruscan equivalent gained immortality after being breastfed by Uni, and in a similar Greek tale, this hero was responsible for the creation of the Milky Way. This hero killed all of Laomedon's sons except Priam during a sack of Troy after not being given (*) magic horses. After this hero's wife Deianira mistakenly killed him, he ascended to godhood and married Hebe, and he had earlier killed his first wife Megara in a mad frenzy. This hero used torches to burn off the heads of the Lernean Hydra after being assigned to kill it in his 12 labors. For 10 points, name this club-wielding, lion-skin wearing, super-strong Greco-Roman hero.

ANSWER: Heracles (or Hercules, Heracle, Alcides, or Alcaeus)

3. One composition by this man includes the "Dance of the Opium Eater," who is revived by the title vampire, *Grohg.* A work by this man includes the section "The Lord's Day" and had its set designed by Isamu Noguchi, and he depicted the dance between the Champion Roper and the (*) Cowgirl in one work in a section followed by a "Hoe-Down." This composer collaborated with choreographer Martha Graham on a work that quotes the Shaker hymn "Simple Gifts." For 10 points, name this American composer who wrote the music for the ballets *Rodeo* and *Appalachian Spring*.

ANSWER: Aaron Copland

4. A character with this profession clashes with "Red Shirt" in Natsume Soseki's novel *Botchan*. One character with this profession collects a "set" of girls in Muriel Spark's *The Prime of Miss Jean Brodie*.

Ambrose Bierce falls in love with a character of this profession in Carlos Fuentes's (*) *The Old Gringo* named Harriet Winslow, and Holden Caulfield finds one of these characters petting his head. In addition to Mr. Antolini, a character of this profession courts Katrina von Tassel and gets driven out of town by a ghost with a pumpkin head. For 10 points, give this profession of Ichabod Crane.

ANSWER: school<u>teacher</u> (accept synonyms like <u>professor</u> or <u>educator</u> or <u>schoolmaster</u> or <u>tutor</u>; accept specific subjects)

- 5. One character in this film asks if another would like to "park," to which the other character says "she's parked before." A character in this movie asks if there's a problem "with the Earth's gravitational pull," and Eric Stoltz initially filmed the main lead for this movie. The protagonist of this movie harnesses (*) "1.21 jiggawatts" [pronounced as spelled] from a lightning bolt, helps his father stand up to Biff and is aided by a character who repeatedly says "Great Scott!" A flux-capacitor modified DeLorean leaves the protagonist of this film stuck in 1955. For 10 points, name this first movie in a trilogy about Marty McFly and Doc Brown. ANSWER: <u>Back to the Future</u> (Part One) (do not accept or prompt on other parts beside "One"; Ed's note: I was promised there would be hoverboards by now...)
- 6. This group was claimed to employ "Nutella, kittens, and emojis," and it released an ad mimicking the British National Health Service logo. This organization publishes the magazine *Dabiq*, and it uses a variant of the (*) Black Standard with text in a white circle. This group published videos of Kenji Goto and James Foley in orange jumpsuits. This group destroyed multiple heritage sites in the ancient city of Palmyra, and they have been officially disavowed by Al-Qaeda. For 10 points, name this organization that currently controls large swaths of territory in two namesake Middle Eastern countries.

ANSWER: Islamic State of Iraq and Syria (or IS; or ISIS; or Islamic State of Iraq and the Levant; or Daesh)

7. This man played his last public concert with Auguste Franchomme, the dedicatee of his G minor cello sonata. A piano work by this composer opens with a fortissimo dominant seventh chord followed by a descending sixteenth-note run in the left hand. Erik Satie's Dessicated Embryos parodies this man's (*) piano sonata number two in B-flat minor, which contains a famous funeral march. A D-flat major work in three-four time by this composer was inspired by a dog chasing its tail, and this man notably wrote a variety of polonaises, nocturnes, and mazurkas. For 10 points, name this Polish composer of the "Revolutionary Etude" and "Minute Waltz".

ANSWER: Frédéric Chopin

- 8. The main character in this story hears a ringing "like the stroke of a blacksmith's hammer upon the anvil" and realizes it's the ticking of his watch. A scout in this story mentions a pile of driftwood, which convinces the main character to try and sabotage a railroad at the title (*) location. The main character in this story dives into a river to avoid being shot, travels 30 miles through the woods, and reaches the front gate of his house just before he sees a blinding light and feels a pain on his neck. In this story, Peyton Farquhar is revealed to have hallucinated his escape from a hanging by Union soldiers. For 10 points, name this story by Ambrose Bierce. ANSWER: "An Occurrence at Owl Creek Bridge"
- 9. One painting of this scene has two extant copies by Cesare de Sesto and Giampetrino. One painting of this scene uses a dodecahedron to frame a disembodied male torso above the main figure, while another uses a diagonal table and the presence of everyday servants. (*) In addition to depictions by Dali and Tintoretto, one painting of this scene shows the central figure wearing an orange and blue robe while twelve people react with shock at the news that one of them will betray the central figure. For 10 points, name this scene most famously painted by da Vinci that depicts Jesus' final meal with his apostles.

ANSWER: The <u>Last Supper</u> (accept *The Sacrament of the <u>Last Supper</u>*; accept Il <u>Cenacolo</u>, accept L'<u>Ultima Cena</u>)

10. According to the Woodward-Hoffman rules, performing this procedure on a conjugated system with four n plus two pi electrons will cause a disrotatory electrocyclization. In the lab, this action is commonly regulated using a variac, and performing the (*) opposite of this process causes "crashing out" during recrystallization. Materials undergoing this lab process are often submerged in sand in a namesake "mantle." Another device used to perform this procedure has open holes at the bottom to control air intake and must be connected to a gas line to operate. For ten points, name this process, commonly carried out by students using a Bunsen burner.

ANSWER: <u>heating</u> (accept anything about making something <u>hot</u>ter or <u>increasing</u> its <u>temperature</u>; anti-prompt [ask for less specific] on "boiling" and equivalents; anti-prompt on "igniting" and equivalents)

11. This phenomenon is oligophilic or polyphilic depending on the number and variety of participants. Müllerian mimicry between two poisonous species is one instance of this phenomenon, and fish of the genus *Labroides* exhibit this phenomenon in aquatic (*) cleaning stations. Seed dispersal by consumption of fruits is an example of this phenomenon, and the most famous example of this phenomenon exists between honeybees and flowers. For 10 points, name this symbiotic relationship, often contrasted with parasitism, that involves two species who both benefit from the interaction.

ANSWER: mutualism (prompt on "symbiosis" before "symbiotic" is read; accept co-operation)

- 12. Operation Triangolo attempted to discredit this man by claiming he had an illegitimate son, and the Bojinka plot was to begin with the assassination of this man. This man used a motto translated as "totally yours," and he criticized what he saw as a "culture of death" in the (*) Evangelium Vitae. This man officially condemned Liberation Theology, and he unofficially supported the Solidarity movement in his home country. A member of the Grey Wolves named Mehmet Ali Ağca shot this man in the abdomen, and he was the first non-Italian to hold his position in 400 years. For 10 points, name this Polish pope who preceded Benedict XVI. ANSWER: Pope John Paul II (prompt on "John Paul"; accept Karol Józef Wojtyła)
- 13. This man calls himself a "degenerate modern wretch" in a poem describing his reenactment of Lysander's trip to see Hero. In addition to Written after swimming from Sestos to Abydos, one poem by this man describes "the Angel of Death spread[ing] his wings on the blast" as "the widows of (*) Ashur are loud in their wail." One of this poet's more romantic works describes a person whose hair is described as a "raven tress" and in whom "all that's best of dark and bright / Meet in her aspect and her eyes." For 10 points, name this British poet of "The Destruction of Sennacherib" and "She Walks in Beauty."

ANSWER: Lord **Byron** (accept George Gordon **Byron**)

14. A fluid flow is non-divergent if and only if the time derivative of this property for a small fluid element is zero. The dynamic pressure is equal to half this property times the square of the velocity of an incompressible fluid. This property for an ideal gas is found by dividing (*) pressure by the product of the ideal gas constant and temperature. The buoyant force acting on an object of given volume is directly proportional to this property of the fluid. The specific gravity of an object is this property for that object divided by this property for water. For 10 points, name this fluid property that determines whether an object floats or sinks.

ANSWER: volumetric mass density (accept rho)

15. The possible eigenvalues of a self-adjoint operator lie within this set. No set has a cardinality between that of the integers and this set, according to the continuum hypothesis. Showing that this set of numbers is uncountable is the object of Cantor's (*) diagonal argument. Cubic polynomials have at least one root in this set, but quadratic polynomials are not guaranteed a root in this set. For complex numbers, the "a" term typically is in this set in contrast to the "b" term. For 10 points, name this set of numbers formed from the union of the rational and irrational numbers that is contrasted with the imaginary numbers.

ANSWER: real numbers (or reals; do not accept or prompt on "rationals")

16. This field of philosophy was worked on by Arthur Prior, who created its temporal branch. A paradox involving a sea battle was proposed by Aristotle in his *Organaon*, which consisted of six works in this field. Saul Kripke worked on the (*) modal branch of this field, while its simplest forms are its first-order and propositional branches. De Morgan's Laws are statements in this field, and George Boole studied a branch of this field in which operands are combined with "AND" or "OR" and can be only true or false. For 10 points, name this branch of philosophy focused on reasoning, such as in statements like "if p then q."

ANSWER: <u>logic</u> (prompt on "philosophy"; prompt on "mathematics" or "algebra"; accept specific types such as modal <u>logic</u> as long as they mention "logic")

17. This ruler executed an enemy by pouring molten silver onto his head, following a tradition that prevented the spilling of royal blood onto the ground; that same tradition caused this man to break the back of his rival Jamukha. This man was born grasping a blood clot according to a (*) Secret History of this man's people. This creator of the Yasa law code defeated the Khwarazmian Empire with help from generals like Jebe and Subutai. This man, whose birth name was Temujin, was succeeded by his son Ogedei and grandson Batu. For 10 points, name this ruler who united several steppe tribes to create the Mongol Empire, a great "Khan."

ANSWER: Genghis Khan (accept Temujin before mention; accept Chinggis Khan)

18. The speaker of one poem written in this language observes "laureate poets" who "wander among plants," but himself prefers "the fragrance of lemon trees." The collection Cuttlefish Bones was written in this language, as was a work using a rhyme scheme translated as "third rhyme." A collection in this language has a title meaning (*) Song Book, and this language was used to praise a woman who guides the author through Mount Purgatory to Heaven. Laura and Beatrice were dedicatees of poems in this language. For 10 points, name this language used by Eugenio Montale, Petrarch, and Dante.

ANSWER: Italian (accept word forms)

19. A poem in this book asks, "where can wisdom be found?," while a one-sided dialogue is posed as a series of questions beginning "Where were you [...]." Elihu condemns a character in this book who promises to "repent in dust and ashes" after (*) being spoken to out of a whirlwind. This book is set in the Land of Uz, and in it Eliphaz, Bildad, and Zophar argue with the title character, who cries out to God unanswered after he is afflicted with boils and loses his wealth. For 10 points, name this book of the Old Testament about a man who is tested with suffering as part of a debate between God and Satan.

ANSWER: Book of **Job** (accept **Iyov**)

20. He's not Thomas Paine, but he explained the motives of some actions in a letter "To the Inhabitants of America." This man tricked General Barry St. Leger to end of the siege of Fort Stanwix, and his leg was shattered during the failed invasion of Quebec and again while leading troops at Freeman's Farm during the Battle of (*) Saratoga. The arrest of the spy John André led to the downfall of this man, and he was married to the Loyalist Peggy Shippen. For 10 points, name this Revolutionary War general who attempted to hand over West Point to the British, causing his name to become synonymous with treachery.

ANSWER: Benedict **Arnold**

21. In this man's version of "Electra," the title character cries holding the urn of her brother, Orestes, but is unaware that he is standing right next to her. In another play by this writer, Haemon kills himself despite earlier supporting the king's decision to shame (*) Polyneices. The title character of that play by this writer is ordered buried alive after being caught re-burying her brother. The title character of a play by this writer stabs his eyes out with brooches after discovering that he has killed his father and married his mother. For 10 points, name this Greek playwright who wrote *Antigone* and *Oedipus Rex*.

ANSWER: Sophocles

Bonuses

1. Answer the following about captive hippopotami in history, for 10 points each:

[10] After this man's death, several hippos escaped into the wild from his personal zoo and now roam the countryside. This Colombian drug lord was opposed by a group known as Los Pepes.

ANSWER: Pablo Escobar

[10] Floods in June 2015 in the capital of this country led to the escape of several zoo animals, including a hippo that was eventually led to safety by rescuers. Mikhail Saakashvili took power in this country after the Rose Revolution.

ANSWER: Georgia (or Sakartvelo; the city is Tbilisi, Georgia)

[10] During this war, besieged Parisians took to eating zoo animals, although the asking price for hippo meat was too high for anyone to afford. This war ended with the capture of Napoleon III at Sedan by a side that consisted of a collection of German states.

ANSWER: Franco-Prussian War

2. Before the start of the Iraq War, a copy of this painting hanging in the UN was covered during press conferences given by Colin Powell. For 10 points each:

[10] Name this artwork. It features an eye-shaped lightbulb at the top of the canvas, as well as depictions of a bull and a rearing horse that represent the chaos of war in the title city.

ANSWER: Guernica

[10] Guernica was painted by this artist in reaction to the Nationalist bombing of the Basque city of the same name. This Spanish artist had Rose and Blue Periods, and worked frequently with Cubism.

ANSWER: Pablo (Diego José Francisco de Paula Juan Nepomuceno María de los Remedios Cipriano de la Santísima Trinidad Ruiz y) <u>Picasso</u>

[10] A Picasso Rose Period painting depicts a *Family* of these travelling circus performers. It depicts a man in a harlequin suit, a man in a red suit, and four other figures standing seemingly in the middle of nowhere.

ANSWER: saltimbanques (accept Family of Saltimbanques)

3. Answer the following about the conflict between the Guelphs and the Ghibellines, for 10 points each:

[10] Unlike the Guelphs, who supported the Pope, the Ghibellines supported the holder of this office. Charlemagne was named the first holder of this office by Leo III.

ANSWER: Holy Roman Emperor (prompt on just "emperor")

[10] The terms Guelphs and Ghibellines arose during the rule of this Holy Roman Emperor. Named for his fiery facial hair, this ruler shares his name with the Nazi codeword for the invasion of the Soviet Union.

ANSWER: Frederick I (or Frederick Barbarossa; prompt on just "Frederick")

[10] The tension between the Guelphs and the Ghibellines was an offshoot of this medieval conflict between church and state. It centered over who had the power to appoint local bishops and other religious officials.

ANSWER: Investiture Controversy (accept synonyms for "controversy")

- 4. Answer the following about the architecture of churches, for 10 points each:
- [10] Gothic cathedrals often feature these architectural features, meant to counteract the outward lateral force on a wall. They derive their name from the fact that the support is not directly attached to the wall.

ANSWER: flying buttresses (prompt on partial)

[10] This Moscow cathedral was built by Postnik Yakovlev. Located near the Kremlin, it is famous for its onion-shaped domes.

ANSWER: <u>St. Basil</u>'s Cathedral (accept Cathedral of <u>Vasily the Blessed</u>; accept Cathedral of the <u>Intercession of the Most Holy Theotokos on the Moat</u>; accept <u>Pokrovsky</u> Cathedral)

[10] After a 2011 earthquake destroyed St. John the Baptist Church in Christchurch, New Zealand, Japanese architect Shigeru Ban constructed a replacement out of this building material.

ANSWER: <u>cardboard</u> (accept <u>Cardboard</u> Cathedral; prompt on "paper")

- 5. A 2015 paper translates 20 additional verses of this epic that were discovered in 2011. For 10 points each:
- [10] Name this Babylonian epic in which the title king of Uruk journeys to find a source of immortality after his friend Enkidu is killed.

ANSWER: Epic of Gilgamesh

[10] While searching for the source of immortality, Gilgamesh meets Utnapishtim, a survivor of one of these disastrous events.

ANSWER: **flood** (accept synonyms like great **flood** or great **deluge**)

[10] The 20 additional lines describe Gilgamesh and Enkidu's experience killing the beast Humbaba in this location. After killing Humbaba, Enkidu worries that they will turn this location "[to] a wasteland."

ANSWER: Cedar Forest (prompt on "forest")

- 6. The largest ancient sculpture ever found was unearthed in one of these structures. For 10 points each:
- [10] The Farnese Bull was discovered in one example of these buildings named for Caracalla. The caldarium was a room in this building, while the hypocausta were located beneath them.

ANSWER: Roman baths (or thermae)

[10] Bathhouses are among the best-preserved ruins of this town in southern Italy, which was destroyed along with Herculaneum and Stabiae in the 79 AD eruption of Mount Vesuvius.

ANSWER: Pompeii

[10] The largest imperial baths in Rome were built in 306 AD and named for this emperor. He established the tetrarchy and he razed the church at Nicomedia as part of his extensive persecution of Christians.

ANSWER: Gaius Aurelius Valerius Diocletianus Augustus

- 7. The Vaisakhi harvest festival is the most sacred in this religion. For 10 points each:
- [10] Name this monotheistic religion that was founded by Nanak and which celebrates ten gurus.

ANSWER: Sikhism (accept word forms)

[10] Uncut hair and the carrying of a sword are among this number of "K"s in Sikhism. There are also this many Thieves, or vices, in Sikhism.

ANSWER: five

[10] This eleventh and eternal "Guru of the Sikhs" is divided by ragas, or musical settings into 1430 pages of religious text.

ANSWER: Adi Granth (or Guru Granth Sahib)

- 8. Name some things related to the warrior goddess Sekhmet, for 10 points each:
- [10] Sekhmet was the wrathful personification of this body part of Ra. One of these body parts belonging to Horus was also known as the "wadjet" and was frequently used as a protective amulet.

ANSWER: eyes

[10] Sekhmet was also seen as an aspect of this more peaceful Egyptian goddess. This goddess was typically associated with cows, as well as love and motherhood.

ANSWER: **Hathor**

[10] Both Sekhmet and Hathor possessed on their crowns this symbol of a rearing cobra. Frequently paired with a solar disk, it usually adorned the crowns of pharaohs.

ANSWER: uraeus

- 9. Answer the following questions about the speed of chemical reactions, for 10 points each:
- [10] Name these differential equations that relate the speed of chemical reactions. Some common examples include the "first" and "second" order forms.

ANSWER: <u>rate law</u> (or <u>rate equation</u>; prompt on partial)

[10] The rate of this process can be expressed to specifics with a rate law, but a half-life is typically used as a standard. Neutron emission is an example of this process in which the nucleus loses mass or energy.

ANSWER: radioactive decay (or radioactivity)

[10] Chemists exploit this effect to determine reaction mechanisms and transition state structures. It can describe the change in reaction rate when a hydrogen atom of one reactant is replaced by a deuterium atom.

ANSWER: kinetic isotope effect (accept KIE; prompt on partial answers)

- 10. Hans Selye's general adaptation theory explains how this phenomenon leads to alarm, and then eventually exhaustion. For 10 points each:
- [10] Name this phenomenon of a person being taxed by outside influences like a noisy crowd. A "post-traumatic" disorder associated with it often occurs to soldiers.

ANSWER: stress

[10] This personality theory posits that half of all people are competitive and easily stressed, while the other half is laid back and less stressed.

ANSWER: Type $\underline{\mathbf{A}}$ and Type $\underline{\mathbf{B}}$ (prompt on partial; accept in either order)

[10] Stress can actually be positive, and when it is significantly so, leads to a person entering this state of immersive focus and concentration. It was theorized by Mihaly Csikszentmihalyi ["mee-high-uh chick-sent-muh-high-ee"]. ANSWER: **flow** (prompt on answers similar to "being in the zone"; *Ed's note: apologies to the moderator for that last name*)

- 11. There are examples of power laws everywhere! Name some things related to such examples, for 10 points each:
- [10] Gutenberg and Richter name a power law relating the magnitude and frequency of these phenomena. Richter also names a scale for the energy of these events.

ANSWER: earthquakes

[10] The Stefan-Boltzmann gives a power law for the energy radiated by these idealized entities. The ultraviolet catastrophe describes a paradox in which they apparently radiate infinite energy.

ANSWER: black body

[10] This empirical law describes the tendency of sampled data from different fields to display a power-law distribution for frequency in terms of rank. Its application to linguistics gives the usage frequency of any word as inversely proportional to its frequency rank.

ANSWER: Zipf's law

- 12. This bird had its first natural nesting in a century at the Necedah National Wildlife Refuge. For 10 points each:
- [10] Name this endangered species of crane, which nearly went extinct in the mid-20th century. Southern nesting sites for this bird include the area around San Antonio Bay on the Texas Gulf Coast.

ANSWER: whooping crane (Accept Grus americana)

[10] Necedah National Wildlife Refuge is also a haven for other migratory birds along a flyway named for this major river, the longest in North America.

ANSWER: Mississippi River

[10] The Necedah Refuge itself is located along a tributary of this river, which flows through Portage and Sauk City before flowing into the Mississippi. It shares its name with the state in which the Necedah Refuge is found.

ANSWER: Wisconsin River

- 13. A character in this story spurns the suggestion of wearing flowers, which eventually leads to 10 years of labor. For 10 points each:
- [10] Name this story that ends with Madame Forestier telling Madame Loisel that the title object "was fake! At most they were worth five hundred francs!"

ANSWER: "The Necklace" (or "The Diamond Necklace")

[10] "The Necklace" is a story by this French author, best known for twist endings like the ones in "The Necklace" or "The Ball of Fat."

ANSWER: Guy de Maupassant

[10] This Maupassant story ends with the main character dying, having gone insane from no one believing that he really just picked up the title item, instead of a missing pocketbook.

ANSWER: "The Piece of String"

- **14.** Lichens are composite symbiotic organisms composed of cyanobacteria and members of this kingdom of organisms. For 10 points each:
- [10] Name this kingdom of organisms characterized by their unique chitin-containing cell walls. This kingdom includes unicellular organisms like yeasts and molds, and multicellular organisms like mushrooms.

ANSWER: fungi (or Fungi; Ed's note: "Why was the mushroom always invited to parties? Because he was a funguy!"; 10 points to anyone who laughs...or not...)

[10] Chytrids ["kit-trids"] were originally classified as protists instead of fungi, since their motile zoospore ["zoh-oh-spore"] phase contain this motile appendage. They're not cilia, but they are structurally identical to cilia in eukaryotes.

ANSWER: flagellum (or flagella, the plural)

[10] Fungi are responsible for chytridiomychosis ["kit-TRID-ee-oh-my-COS-sus"], a disease that sometimes causes 100% mortality in this class of organisms. Clades within this class of organisms include the orders Apoda, Caudata, and Gymnophiona.

ANSWER: amphibians (or Amphibia)

- 15. This character's father is Sarek, and his mother is Amanda Grayson. For 10 points each:
- [10] Name this character who "logically" chooses to sacrifice himself at the end of *The Wrath of Khan*, thus dying in Captain Kirk's arms.

ANSWER: Spock

[10] Spock, Captain Kirk, and the other crew members of the *Enterprise* appear on the "Original Series" of this franchise. The "Next Generation" incarnation of this franchise stars Patrick Stewart as Captain Picard.

ANSWER: Star Trek

[10] Brent Spiner plays this android on *The Next Generation*. In the episode "The Measure of a Man," this character is emotionally ruled to be a sentient being and not property.

ANSWER: Data

- 16. The sixteenth of these described American industry as an "arsenal of democracy" for the world. For 10 points each:
- [10] Name this series of addresses with such titles as "On the Recession" and "Report on the Home Front."

ANSWER: fireside chats

[10] The fireside chats were delivered by this Democratic president and architect of the New Deal. He succeeded Herbert Hoover and won an unprecedented fourth term of office in 1944.

ANSWER: Franklin Delano Roosevelt (accept FDR; prompt on "Roosevelt")

[10] FDR's ninth fireside chat dealt with this initiative, which resulted from Black Monday and ultimately led to the end of the Lochner era.

ANSWER: court-packing plan (accept Judicial Procedures Reform Bill of 1937)

17. On July 29, 2015, the 10th version of this operating system was released to the public. For 10 points each:

[10] Name this ubiquitous operating system whose 8th version attempted to introduce a touchpad-like interface for the Start screen. This operating system has made a Harvard dropout pretty rich.

ANSWER: Windows NT

[10] This technique removes hardware restrictions on the iPhone OS, allowing the user to install custom software. The equivalent on Android phones is rooting.

ANSWER: jailbreaking

[10] This popular open-source Linux distribution was developed by Ian Murdock in the 90s. Ubuntu is derived from this distribution.

ANSWER: Debian

18. A 65-measure harpsichord cadenza can be found in the fifth of this set of compositions. For 10 points each:

[10] Name this group of six works composed for the margrave of a German city. The fourth of these works includes a part for the "echo flute," although it's usually replaced by a recorder in modern performances.

ANSWER: Brandenburg Concertos (accept Six Concerts à plusieurs instruments)

[10] The Brandenburg Concertos were written by this composer of the St. Matthew Passion and The Well-Tempered Clavier.

ANSWER: Johann Sebastian Bach (prompt on "Bach")

[10] This Canadian pianist was well-known for his interpretations of J.S. Bach's keyboard works, particularly his 1955 recording of the *Goldberg Variations*, which features extensive humming and foot-tapping.

ANSWER: Glenn (Herbert) Gould

- 19. Answer the following about references to Samson in British literature, for 10 points each:
- [10] The marriage between Rawdon Crowley and Becky Sharp is compared to Samson and Delilah in this "novel without a hero," which contains an extensive portrayal of the Battle of Waterloo.

ANSWER: Vanity Fair: A Novel Without a Hero (by William Makepeace Thackeray)

[10] This blind English poet wrote the drama Samson Agonistes, but he's more famous for depicting the fall of Lucifer from heaven in Paradise Lost.

ANSWER: John Milton

[10] In Geoffrey Chaucer's *The Canterbury Tales*, this horribly depressing dude includes the tale of Samson as one of 17 tragic stories before the Knight cuts him off for being such a buzzkill.

ANSWER: the Monk (accept "The Monk's Tale")

- 20. The narrator of this book engages in an intimate foot-mingling ceremony with the San Lorenzian Mona. For 10 points each:
- [10] Name this novel in which the substance ice-nine ultimately leads to the freezing of the entire Earth. It's named after a children's string game.

ANSWER: Cat's Cradle

[10] *Cat's Cradle* is a novel by this American, who repeatedly inserted birdcalls of "Poo-tee-weet?" within his novel about the unstuck-in-time Billy Pilgrim, *Slaughterhouse-Five*.

ANSWER: Kurt **Vonnegut**

[10] In this Vonnegut novel the space explorer Malachi Constant travels to the title moon of Saturn and meets Winston Niles Rumfoord, as well as an alien whose spaceship is powered by the "Universal Will to Become."

ANSWER: The Sirens of Titan

- 21. A highly illegal method of fishing in southeast Asia involves using the sodium salt of this anion. For 10 points each:
- [10] Name this anion, which consists of a carbon atom triple bonded to a nitrogen atom.

ANSWER: evanide (do not accept or prompt on "nitrile"; prompt on "CN" ["see-en-minus"])

[10] Sodium cyanide is also commonly used in the mining of this metal, which notably dissolves in *aqua regia*. This element's chemical symbol is Au.

ANSWER: gold

[10] This other cyanide-containing compound has idealized formula $Fe_7(CN)_{18}$ ["eff-ee-seven-see-en-eighteen"]. It can be used to treat thallium poisoning, although its most notable industrial use is as a dye.

ANSWER: <u>Prussian blue</u> (or <u>Turnbull's blue</u>; or <u>Berlin blue</u>; or <u>Parisian blue</u>; or <u>ferric ferrocyanide</u>; or <u>ferric </u>