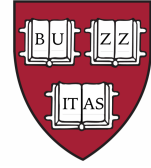


Harvard Fall Tournament XI

Edited by Raynor Kuang and Robert Chu

Questions by Robert Chu, Raynor Kuang, Jason Park, Sriram Pendyala, Neil Gurram, Erik Owen, Jonathan Suh, Roger Jin, Vimal Konduri, and Mark Arildsen

And with thanks to Harvard College, MIT Quiz Bowl, and various playtesters



Round 7

Tossups

1. **This river's course is paralleled underneath the earth by a slowly flowing aquifer called the Hamza River. This is the longest river that is a natural habitat of a parasitic fish called the candiru that supposedly swims up urine streams. A tributary of this river flows past the failed industrial settlement of (*) Fordlandia.** This waterway flows into the ocean at Belem. Manaus is the capital of the state named for this river, which is the most voluminous in the world. Piranhas and anacondas are examples of the biodiversity of species that can be found in its basin and namesake rainforest. For 10 points, name this longest river of South America.

ANSWER: Amazon River

2. **One of this writer's plays repeats itself, centers on a "chorus" of three people and funeral urns, and was literally titled *Play*. One of this writer's characters relishes in the word "spool" while eating a lot of bananas and listening to himself at (*) ages 39 and 20, and he wrote a play which Hamm's parents spend living in a trashcan.** This playwright wrote *Krapp's Last Tape* and *Endgame*, and in one of his plays the protagonists encounter Pozzo leading Lucky on a leash. In his most famous play, Vladimir and Estragon spend two days hoping the title character will show up, though he never does. For 10 points, name this Irish author of *Waiting for Godot*.

ANSWER: Samuel (Barclay) Beckett

3. **Tim Donaghy alleged that a game of this number in which one team shot 27 free throws had been fixed. A player shot a corner 3 to tie a game of this number known for the headband of a player wearing this number at the time, and a game winning shot against the Jazz in a game of this number by (*) Michael Jordan became known as "the Shot."** As of 2016, it's the number of straight Finals appearances LeBron James has made, and it's the number of championships won by Michael Jordan. In the NBA, it's the amount of fouls one can receive before fouling out. For 10 points, give this number of points you would receive for making three layups.

ANSWER: six (the series are the 2002 Western Conference Finals; the 1998 NBA Finals; and the 2013 NBA Finals; *Ed's note: but I sadly couldn't fit in the most important game 6...2016 #believeland #mouthpiecesareforplayersnotfans*)

4. **One book from this modern day country has a title translated as *Against Nature* and was written by Joris-Karl Huysmans. Unusually structured typography was used for the poem "A throw of the dice will never abolish chance" from this country also home to the 19-year old poet of (*) "A Season in Hell." Edgar Allan Poe's work inspired the Symbolist movement in this country, which included poets like Stephane Mallarme, Paul Verlaine, and Arthur Rimbaud. A poet from this country included sections like "Revolt" and "Spleen and Ideal" in his poetry collection *The Flowers of Evil*.** For 10 points, name this home country of poet Charles Baudelaire.

ANSWER: France (or the French Republic)

5. **This painter was the one most prominently championed by Clement Greenberg. He heavily relied on mythological themes and Jungian analysis for his paintings *Guardians of the Secret* and *The She Wolf*. This man was prominently photographed working by (*) Hans Namuth, and he was married to Lee Krasner. This artist took a line from *The Tempest* to title his painting “Full Fathom Five.” He pioneered “action painting” in his paintings *Lavender Mist* and *No. 5, 1948*, which are frequently criticized for their splatter-like composition. For 10 points, name this Abstract Expressionist nicknamed “Jack the Dripper.”**

ANSWER: Jackson Pollock

6. **A king of this name signed a free trade agreement benefitting his country’s cloth merchants called the *Intercursus Magnus*. One king of this name agreed to marry Catherine of Valois as part of the Treaty of Troyes. After Parliament passed the Act of (*) Supremacy, a king with this name seized the property of British monasteries. In response to an angry outburst by a king of this name, four knights killed Thomas of Beckett. Thomas Cranmer advised a monarch of this name who attempted to annul his marriage to Catherine of Aragon. For 10 points, give this regnal name, the eighth of whom married six wives.**

ANSWER: Henry (accept the additional number of any Henry mentioned in the tossup, i.e., in order, Henry VII, Henry V, Henry VIII, and Henry II)

7. **A class of compounds named for this scientist are used as catalysts of Diels-Alder and Friedel-Crafts reactions. Pearson also names a class of compounds named for this scientist that are ranked based on charge density as “hard” or “soft.” (*) Boron trifluoride is the canonical example of a class of compounds named for him, and the ability to receive or donate pairs of electrons classifies his namesake acids and bases. Resonance is often depicted using multiple copies of a diagram named for this scientist that writes the element symbol in the middle and surrounds it with electrons. For 10 points, give this American scientist who names a common “dot diagram.”**

ANSWER: Gilbert Newton Lewis (accept (hard/soft) Lewis acids or Lewis bases)

8. **This work was translated in 1990 by Robert Fagles and in 2011 by Stephen Mitchell. The image of an attacking lion is used in several similes in this work, and it describes the Cosmos and a warring city in a nine-part *ekphrasis* on a shield. This work notably ends with the pyre-burial of a (*) slain enemy, and its Catalogue of Ships describes the origins of several troops. This work opens *in medias res* with the line “Rage--Goddess, sing the rage of [...] Achilles,” subsequently describing Achilles’s killing of Hector. This work is usually paired with one in which Odysseus struggles to venture home. For 10 points, name this epic written by Homer about the Trojan War.**

ANSWER: *The Iliad*

9. **Surgeons operating on this type of tissue often follow its Langer’s lines while making incisions in order to speed healing. Receptors known as Merkel cells are found in the *stratum basale* of this tissue, and individuals with vitiligo have an (*) unnaturally colored form of this tissue. Desquamation describes the shedding of keratinocytes from this tissue. Secretions occur from the sebaceous glands in this tissue, and exposing this tissue to ultraviolet radiation can cause melanoma. For 10 points, name this tissue that comprises the largest organ in the body and whose diseases are treated by dermatologists.**

ANSWER: skin (accept epidermis; accept dermis)

10. In this city, several Cretan nobles sought the protection of St. Titus in an unsuccessful rebellion. The Council of Ten forced the abdication of one of its rulers, Francesco Foscari. An annual festival in this city was conducted on a giant ship called the Bucentaur and required its ruler to throw a (*) ring into the sea. Rivals of this city formed the League of Cambrai. Four bronze horses on this city's main basilica were looted from Constantinople, part of a crusade called for by its leader Enrico Dandolo, who held the title of doge ["doh-jay"]. For 10 points, name this powerful Italian city-state of the Middle Ages, whose residents got around on its many canals.
ANSWER: (Most Serene) Republic of Venice (or Serenissima Repubblica di Venezia)

11. In X-Bar theory, the "phrases" for these entities usually form the complements to the I-bar. Japanese notably differs from English in that these entities usually occur last, and the valency of these words describes how many arguments they take. These words can be (*) copular, and they can be used as other parts of speech when gerunds. These words can have subjunctive or indicative moods, and they're usually defined using the infinitive form and the word "to." You conjugate these parts of speech, and they might be transitive or intransitive. For 10 points, name these parts of speech that might describe actions using the future or present tenses.
ANSWER: verbs (accept verb phrases; prompt on V; prompt on (only) SOV after "Japanese" is read)

12. For many materials, these phenomena are accompanied by a divergence in the length scale on which molecular motion is correlated. Paul Ehrenfest classified these phenomena using order parameters, and the Curie point is a (*) second-order example of them. The coexistence curve represents the parameters along which these occur, and they can no longer occur at the critical point. These occurrences are represented by the crossing of pressure-temperature boundary lines on their namesake diagrams. These occurrences are exemplified by deposition and sublimation. For 10 points, name these occurrences in which one state of matter becomes another.
ANSWER: phase transitions (accept phase change or phase transformations or any logical synonym of "transition"; prompt on partial answer, especially just phases)

13. The reciprocal of this value is the limiting probability in the hat-check problem, and this value is taken to the power of "minus x squared" in the standard error function. A function that uses this number has Taylor series entries of the form (*) " x to the n over n factorial," and according to Euler's identity, this number raised to " i times pi" plus one equals zero. This number is equal to the n th power of the quantity "One plus one over n " as n goes to infinity, and this number to the power x is the exponential function. For 10 points, give this number roughly equal to 2.718 that forms the base of the natural logarithm.
ANSWER: e (accept Napier's constant or Euler's number; do not accept Euler's constant, as that's actually something else)

14. In a story by this author, a starving man is abandoned by his partner Bill before discovering the *Bedford* whaling ship. This author of "Love of Life" imagined the use of germ warfare against China in "The Unparalleled Invasion," and one of his characters ignores the advice of "the old man of Sulphur Creek" and is eventually abandoned by (*) his dog. A man freezes to death after failing to do the title task in this author's story "To Build a Fire." In one of his novels, Judge Miller's pet is stolen before eventually joining a pack of wolves; that pet is the dog Buck. For 10 points, name this author of several nature stories and novels, like *The Call of the Wild*.
ANSWER: John Griffith "Jack" London

15. The Grimnismal attests that this god must wade every day through the Kormt and Ormt rivers. After breaking a thigh bone to eat the marrow from a certain animal, Thialfi becomes this god's servant. In one story, the terrified Hymir cut a fishing line after this god managed to hook the (*) Midgard Serpent, and his chariot is pulled by a pair of self-regenerating goats. This god's wife is the golden-haired Sif, and after one of his possessions was stolen by the giant Thrym, he dressed as Freya for a fake wedding. This son of Odin owns the immensely powerful hammer Mjollnir ["myoll-near"]. For 10 points, name this Norse god of thunder.

ANSWER: Thor

16. One candidate in this election pledged to campaign in all 50 states despite injuring his knee on a car door. 15 electoral votes were won in this election by the coiner of the term "massive resistance," senator Harry F. Byrd, and the losing vice presidential candidate in this election was Henry Cabot Lodge, Jr. After refusing (*) makeup, the losing candidate in this election appeared sick and sweaty in the first televised presidential debates. The winner of this election would be assassinated three years later by Lee Harvey Oswald. For 10 points, name this election in which Richard Nixon was defeated by John F. Kennedy.

ANSWER: 1960 United States presidential election

17. One section of this piece in G sharp minor features one of the first orchestral saxophone solos, and another opens by imitating the "nyah-nyahs" of taunting children playing in the title location. A recurring short section of this work alternating between (*) 5/4 and 6/4 time separates those two sections, "Tuileries" and "The Old Castle." "Promenades" are used to separate the sections in this work, and it was inspired by the work of Viktor Hartmann. This work was most notably orchestrated by Maurice Ravel, and its sections include "Baba Yaga" and "The Great Gate at Kiev." For 10 points, name this Modest Mussorgsky composition inspired by an art show.

ANSWER: Pictures at an Exhibition: A Remembrance of Viktor Hartmann (accept "of" or "from" in place of "at," accept Kartinki s vystavki; accept Tableaux d'une exposition)

18. Before starting his ministry, this man spent three years in Arabia, which some scholars interpret as time spent meditating at Mount Sinai. This student of Gamaliel resurrected Eutychus, who had fallen from a third-story window while listening to this man's sermon. This man criticized a leader at (*) Antioch for not eating with Gentiles who did not follow Jewish customs. This man heard a voice say "Why do you persecute me?" before being knocked off his donkey and blinded on the road to Damascus, which led this man to change his name and convert. For 10 points, name this early Christian apostle originally named Saul.

ANSWER: St. Paul the Apostle (accept Saul of Tarsus before Saul is read)

19. A film from this country opens with a series of shaky motion shots showing a group of children chasing a chicken. A composer from this country combined its folk music with Baroque influences to create a series of *Bachianas* named for this country. A cathedral in its capital city made of 16 white (*) hyperboloid arcs was designed by Oscar Niemeyer, and it is the setting for the film *City of God*. A statue on Mount Corcovado in this country shows the title religious figure with both arms outstretched. For 10 points, name this home country of Heitor Villa-Lobos, in which *Christ the Redeemer* stands above Rio de Janeiro.

ANSWER: Federative Republic of Brazil (or República Federativa do Brasil)

20. After this man declared himself president in the "Organic Decree," the September Conspiracy organized against him but failed due to the actions of his mistress Manuela Sáenz. This man urged unity in a letter written in exile from (*) Jamaica, and he legalized violence against European-born residents not supportive of his cause in the Decree of War to the Death. His most trusted subordinate was Antonio José de Sucre, and he met at the Guayaquil Conference with José de San Martín. For 10 points, name this first president of Gran Colombia, a South American "liberator" who fought against Spanish colonial rule.

ANSWER: Simón (José Antonio de la Santísima Trinidad) Bolívar (y Palacios)

21. **This story opens with a quotation from the poem “Castle of Indolence.” A tulip-tree in this story is named after Major Andre, and it contains a horse named Gunpowder. A character in this story attempts to cross a bridge to make another (*) vanish in “flash and fire,” and Brom Bones competes with another character in this story for Katrina Van Tassel. The schoolteacher Ichabod Crane flees the title glen of this short story after an apparent encounter with the ghost of a Hessian soldier that leaves behind a shattered pumpkin. For 10 points, name this Washington Irving short story about the Headless Horseman.**

ANSWER: “The **Legend of Sleepy Hollow**”

Bonuses

1. The practice among early music publishers of falsely attributing works to this composer to boost sales led Georg Forster to remark that his post-death output was larger than that during life. For 10 points each:

[10] Name this leading Renaissance composer of the Franco-Flemish school. He wrote the motet “Ave Maria..virgo serena” as well as other pieces based on the *Pange Lingua* hymn and the notes la, sol, fa, re, and mi.

ANSWER: **Josquin** [“joss-KAHN”] **des Prez** (accept either underlined portion)

[10] Josquin’s works based on *Pange lingua* and *La sol fa re mi* are works in this choral genre. J.S. Bach wrote one of these pieces in B minor, and they usually consist of sections like the *Kyrie* and *Credo*.

ANSWER: settings of the **Mass** Ordinary (accept **Missa** *Pange lingua*; accept **Missa** *la sol fa re mi*)

[10] A later composer who used the *Pange lingua* hymn was this former child prodigy, whose *Jupiter* symphony uses the first four notes of the hymn in its finale. He also wrote *Eine kleine Nachtmusik*, or “A Little Night Music.”

ANSWER: Wolfgang Amadeus **Mozart**

2. The Salon des Indépendants removed a work by this artist for being too phallic, although he claimed it was a depiction of Marie Bonaparte. For 10 points each:

[10] Name this Romanian sculptor of *Princess X* and a work that was assessed a customs tax for its resemblance to a machine part, *Bird in Space*.

ANSWER: Constantin **Brancusi** [bran-KOOSH]

[10] Brancusi’s *Sleeping Muse* is a sculpture of one of these body parts lying on its side. The *Winged Nike of Samothrace* is missing this body part, and a circular canvas by Caravaggio shows Medusa’s body part of this kind.

ANSWER: **head** (accept obvious equivalents)

[10] A World War I memorial at Targu Jiu includes Brancusi’s *Table of Silence*, *Gate of the Kiss*, and this other sculpture, a 30-meter tall tower of roughly football-shaped blocks stacked on top of each other.

ANSWER: **Infinity Column** (or *The Infinite Column*; or *The Endless Column*)

3. Answer the following about Coco Chanel, for 10 points each:

[10] Perhaps the most timeless piece of women’s clothing is a dress named for these two adjectives and designed by Chanel. Audrey Hepburn wore Givenchy’s version of this style of dress in *Breakfast at Tiffany’s*.

ANSWER: **little black** dress (need both underlined portions; prompt on partial answer; prompt on **LBD**)

[10] Chanel’s little black dress was popularized in *Vogue*, a magazine currently edited by this woman. Her abrasive personality inspired the nickname “Nuclear” and the character of Miranda Priestly in *The Devil Wears Prada*.

ANSWER: Anna **Wintour**

[10] When asked what she wore to bed, Marilyn Monroe huskily replied that she only wore Chanel’s “Number 5” version of this type of accessory, which has “base notes” like vanilla and sandalwood.

ANSWER: **perfume** (or **fragrance**; or eau de **parfum**)

4. For 10 points each, answer the following questions related to a certain nucleocytoplasmic large DNA virus:

[10] The mimivirus infects these unicellular eukaryotes which move through the use of pseudopods. These organisms common in lab petri dishes have no defined shape, and a “brain-eating” kind can infect people swimming in the wild.

ANSWER: **amoeba**

[10] The mimivirus is so large it has its own parasites called virophages, which are suspected to mediate this biological process. In this process, DNA is passed between unrelated species, and it can occur through bacterial conjugation.

ANSWER: **horizontal gene transfer** (or **lateral gene transfer**; prompt on **gene transfer**)

[10] The mimivirus’s genome codes for enzymes that catalyze the esterification of an amino acid onto this molecule. This molecule has structural features like the D arm, acceptor stem, and variable loop.

ANSWER: **transfer RNA** (or **tRNA**; do not prompt on just “RNA”)

5. In this phenomenon, kinetic energies of ejected electrons are proportional to the energy of light quanta, minus a threshold. For 10 points each:

[10] Name this effect, which can best be demonstrated by shining UV light onto the surface of a zinc plate.

ANSWER: **photoelectric** effect

[10] The photoelectric effect was first observed by this German scientist. He also names the SI unit of frequency.

ANSWER: Heinrich **Hertz**

[10] When photons have much higher energies, this inelastic scattering process may occur instead of photoelectric scattering. In this process, the photon’s wavelength increases proportional to Planck’s constant over the mass of the electron times the speed of light.

ANSWER: **Compton** scattering

6. For 10 points each, name some things related to British poems that are really good for a pick-me-up:

[10] A Dylan Thomas poem written for his dying father encourages the listener to “rage, rage against the dying of the light” and “Do not go gentle into [*this* three word phrase.]”

ANSWER: “**that good night**” (accept exact phrase only)

[10] This William Ernest Henley poem was written after an amputation. It quotes, “My head is bloody but unbowed” and ends “I am the master of my fate; I am the captain of my soul.”

ANSWER: “**Invictus**”

[10] This poet’s “Say not the Struggle nought Availeth” ends with a reminder to fighting soldiers “But westward, look, the land is bright.” Matthew Arnold wrote “Thyrsis” as an elegy for the early death of this man.

ANSWER: Arthur Hugh **Clough** (“cluf,” but accept any reasonable pronunciation)

7. A giantess named Hyrokkin shows up to this event riding a wolf with snakes as her reins. For 10 points each:

[10] Name this event from Norse mythology. For no apparent reason, Thor kills the dwarf Litr at this event by kicking him into a fire.

ANSWER: the **funeral** of **Baldr** (prompt on partial answer; do not accept or prompt on “the burial of Baldr” since he is ceremonially burned, not buried)

[10] Baldr died after his brother Hodr shoots him with a dart made from this plant, the only one from which Frigg did not extract an oath to not harm Baldr. Cutting this plant from an oak tree is an important Druid ritual.

ANSWER: **mistletoe** (or *Viscum album*)

[10] To be fair, all the gods had been throwing darts for fun at Baldr, and this trickster god maliciously gave the blind Hodr the mistletoe dart. This god’s other antics include fathering Fenrir and stealing the Golden Apples.

ANSWER: **Loki**

8. This company was blacklisted by one country until its products were needed to fight the Kargil War against Pakistan. For 10 points each:

[10] Name this Swedish arms manufacturer. It allegedly bribed politicians to win a contract to supply artillery to India in the 1980s.

ANSWER: **Bofors** AB (accept the **Bofors** scandal)

[10] The Bofors scandal led to the downfall of an Indian politician with this surname. Other people with this surname included Indira and the leader of the Indian independence movement, Mahatma.

ANSWER: **Gandhi** (accept Rajiv **Gandhi** or Indira **Gandhi** or Mahatma Gandhi)

[10] Indira Gandhi was assassinated following her authorization of Operation Blue Star to seize the Golden Temple in this Punjabi city. A massacre occurred after Reginald Dyer ordered troops to fire on protesters in this city.

ANSWER: **Amritsar**

9. In one speech, this man said that the “great questions of the day” would be decided “Blood and Iron.” For 10 points each:

[10] Name this “Iron Chancellor” of Prussia. He heavily edited the Ems dispatch to provoke war with France and was the main force behind German unification in the second half of the 19th century.

ANSWER: Otto von **Bismarck** (or Otto Eduard Leopold, Prince of **Bismarck**, Duke of Lauenburg)

[10] Bismarck’s education minister Adalbert Falk gave his name to a series of laws restricting the power of this institution. It was the main target of Bismarck’s *Kulturkampf*.

ANSWER: the **Catholic** Church (prompt on the Church)

[10] German relations with the Catholic Church improved after this man became pope in 1878. Highlights of his long pontificate, which lasted until 1903, included advocating for social welfare in the encyclical *Rerum novarum*.

ANSWER: **Leo XIII** (prompt on Leo)

10. Televangelist Paul Crouch claimed that, when played backwards, a section of this song sounds like “I sing because I live with Satan.” For 10 points each:

[10] Name this song whose lyrics claim that “a lady who’s sure all that glitters is gold” is buying the title structure. Robert Plant sings and Jimmy Page solos in this nearly eight-minute rock classic.

ANSWER: “**Stairway to Heaven**”

[10] “Stairway to Heaven” is this band’s most famous song. This band’s members chose their name to poke fun at people who thought they would go down like a certain poorly-designed aircraft.

ANSWER: **Led Zeppelin**

[10] This other song from *Led Zeppelin IV* begins, “Hey hey mama said the way you move gon’ make you sweat gon’ make you groove.” Its title references an animal that hung out around the recording studio at Headley Grange.

ANSWER: “**Black Dog**”

11. A deus ex machina arrives at the end of this play in the form of an officer of Louis XIV. For 10 points each:

[10] Name this French play about the title fraud who claims to be a religious man and nearly manages to con away Orgon’s house. It is subtitled “The Hypocrite.”

ANSWER: **Tartuffe**, or *The Impostor*, or *The Hypocrite*

[10] *Tartuffe* is a play by this man, who died following a coughing fit while performing his own play *The Imaginary Invalid*.

ANSWER: **Molière** (or Jean-Baptiste **Poquelin**)

[10] Orgon finally discovers Tartuffe’s treachery while hiding in this location, overhearing Tartuffe attempting to force himself upon Orgon’s wife Elmire.

ANSWER: under a **table**

12. Expecting to die, some defenders of this location deserted their posts and raided its rum stores to get drunk instead. For 10 points each:

[10] Name this military location captured during the French and Indian War by French troops who were occupying nearby Fort Duquesne. This place derived its name from the circumstances surrounding its hasty construction.

ANSWER: Fort **Necessity**

[10] This general surrendered for the only time at Fort Necessity. He would go on to accept Charles Cornwallis' surrender at Yorktown before becoming the first U.S. president.

ANSWER: George **Washington**

[10] The French attacked Fort Necessity after this man was killed and his brains allegedly used as hand soap in a battle at his namesake "Glen," thus starting the French and Indian War.

ANSWER: Joseph Coulon de Villiers, Sieur de **Jumonville** (accept **Jumonville** Glen; accept the **Jumonville** Affair)

13. This figure lied about the identity of his wife to Pharaoh and Abimelech. For 10 points each:

[10] Name this man who took 318 servants on a night raid against the Elamites, who had taken this man's nephew captive.

ANSWER: **Abraham** (or **Abram**)

[10] Abraham was rescuing this nephew, who had previously argued with Abraham. This man lost his wife after she was transformed into a pillar of salt for looking back.

ANSWER: **Lot**

[10] Everyone in Lot's family but his wife escaped the destruction of these two cities, which God destroyed with fire and brimstone due to their sin. Name either, noting that one of the cities spawned a word referring to "crimes against nature."

ANSWER: **Sodom** and **Gomorrah** (accept either; accept **sodomy**)

14. For 10 points each, answer some questions about three cities with something in common:

[10] This city forms the "D" in the "DMV." Pierre Charles L'Enfant was its city planner.

ANSWER: **Washington, D.C.** (accept either or both underlined parts; accept **District** of Columbia)

[10] This Ivy League university was founded in New Haven, Connecticut in 1701. The secret societies at this supposed rival to Harvard University are called "tombs."

ANSWER: **Yale** University (prompt on **Collegiate College**, I guess; *Ed's note: prompt on **hell***)

[10] Along with Raynor's hometown of Washington, D.C., and Robert's hometown of New Haven, other senior Vimal claims Dallas as a hometown. This 710-mile river flows past downtown Dallas, where it runs under Calatrava's Margaret Hunt Hill Bridge. It has East, West, Clear, and Elm Forks.

ANSWER: **Trinity** River

15. Anne Carson's collection *If Not, Winter* is a translation of poems by this author. For 10 points each:

[10] Name this "tenth muse," a female Greek poet. She wrote the "Hymn to Aphrodite," and her "Brothers poem" was discovered in 2014.

ANSWER: **Sappho**

[10] Sappho notably came to symbolize this trait, to which both her name and island of origin now refer. Gertrude Stein, who wrote a memoir in the voice of her lover Alice B. Toklas, also notably possessed this trait.

ANSWER: **lesbian** (accept **homosexual** or **gay** or anything remotely suggesting **women liking women**; accept **bisexual**, since Sappho was as well; accept **Lesbos**, the island in question)

[10] The opening line of Sappho's "Ode to Anactoria," or Fragment 31, was translated by Peter Saint-Andre as "He seems to me, that one, to be [...]" and then this trait. Catullus's loose translation of that trait was the Latin "esse deo videtur."

ANSWER: "**equal to the gods**" (be lenient: accept anything that contains the word **god**(s) and conveys being on the same level as such beings)

16. The stage of building an executable named for this language type immediately precedes the linking stage. For 10 points each:

[10] Name this language type. Common instructions in it include things like moving register memory and jumping to specific labels.

ANSWER: **assembly** (or **asm**; accept word forms)

[10] Assembling in turn follows this process in which source code is translated into machine code. A “makefile” is usually used for this process in C, and in general it’s more loosely described as the last step before running code.

ANSWER: **compiling** (accept word forms)

[10] Of course, there’s no guaranteeing you’re making an executable for the right reasons...your executable might even be one of these pieces of self-replicating malware. Don’t confuse them with similar worms or Trojan horses.

ANSWER: **viruses** (prompt on **malware**)

17. One of this man’s works includes a six volume history of England. For 10 points each:

[10] Name this Scottish philosopher and empiricist who introduced thought experiments such as the “missing shade of blue” in his *An Enquiry Concerning Human Understanding*.

ANSWER: David **Hume**

[10] One of Hume’s most famous ideas was the “problem” of this concept. This form of reasoning infers from a small case to a larger case, unlike the similar deduction.

ANSWER: **induction**

[10] This man revived Hume’s ideas in his “New Riddle of Induction,” in which he tried to differentiate law-like generalizations from non-lawlike generalizations such as grue and bleen.

ANSWER: Nelson **Goodman**

18. CFCs were phased out after it was discovered that they depleted this molecule. For 10 points each:

[10] Give this molecule whose namesake “hole” is being created in the stratosphere. Crutzen, Molina, and Rowland were awarded the 1995 Nobel Prize in Chemistry for their work on this triatomic oxygen-based molecule.

ANSWER: **ozone** (prompt on **O₃**)

[10] These highly reactive species have one or more unpaired electrons and catalyze the breakdown of ozone into oxygen. They’re usually described by the adjective “free.”

ANSWER: free **radicals**

[10] Ozone is a pollutant in the lower troposphere, since it attacks these structures that are part of conjugated systems. These structures can be created among carbon atoms in the Wittig reaction.

ANSWER: **double bonds** (prompt on **bonds**)

19. This monarch’s namesake “cylinder” contains what has been controversially called the world’s first declaration of human rights. For 10 points each:

[10] Name this founder of the Achaemenid dynasty who conquered both the Medes and the Lydians.

ANSWER: **Cyrus the Great** (or **Cyrus II**; prompt on **Cyrus**)

[10] Cyrus started the Achaemenid dynasty in this empire, whose later king Darius III would lose the Battles of Issus and Gaugamela to Alexander the Great. This empire also repeatedly tried to invade Greece.

ANSWER: **Persia**

[10] This Greek historian wrote a fictionalized biography of Cyrus the Great called the *Cyropaedia*. He documented Cyrus the Younger’s failed attempt to usurp the Persian throne in his *Anabasis*.

ANSWER: **Xenophon**

20. This poem opens with a dedication “To the Memory of the Household It Describes.” For 10 points each:

[10] Name this long poem describing the various stories told by a New England family while they’re trapped during a blizzard.

ANSWER: ***Snow-Bound***: *A Winter Idyl*

[10] *Snow-Bound* was written by John Greenleaf Whittier, a member of the Fireside poets along with this man. This poet held the Smith Professorship at Harvard and wrote various works like “The Village Blacksmith” and “Paul Revere’s Ride.”

ANSWER: Henry Wadsworth **Longfellow**

[10] Longfellow also wrote this long poem about a pre-American figure who falls in love with Minnehaha “on the shores of Gitche Gume.”

ANSWER: *The **Song of Hiawatha***

21. For 10 points each, answer some questions that test your mastery of cell biology:

[10] Name this structure responsible for the synthesis of ribosomes. It lives inside a similarly named organelle that houses the cell’s genetic material.

ANSWER: **nucleolus** (do not accept or prompt on “nucleus”)

[10] Some ribosomes synthesized in the nucleolus are destined for the “rough” type of this membranous organelle. This organelle is continuous with the outer nuclear membrane and is made up of many cisternae.

ANSWER: **endoplasmic reticulum** (or **ER**)

[10] Interest in the structure and function of the nucleolus was first sparked by research using this amphibian model organism. This organism’s large eggs make it an ideal tool to study embryological development.

ANSWER: ***Xenopus laevis***