

Harvard Fall Tournament XIV

Edited by Jon Suh with assistance from Jordan Brownstein, Ricky Li, and Michael Yue

Questions by Jon Suh, Michael Yue, Ricky Li, Kelvin Li, Justin Duffy, Thomas Gioia, Chris Gilmer-Hill, Laurence Li, Jonchee Kao, Peter Laskin, Olivia Murton, Mazin Omer, Alice Sayphraraj, and Kevin Huang

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Packet 4

Tossups

1. In one work, this man duels Rinaldo twice for a woman he saved from King Agrican. Astolfo flies Elijah's chariot to the Moon to restore this character's sanity in a sequel to that Boiardo ["boy-YARD-oh"] work. This man gives his glove to God before dying in another work in which he is accompanied by Oliver and the archbishop Turpin. In that work, his stepfather (*) Ganelon betrays him to the king of Saragossa. This man loves Angelica of Cathay in a Ludovico Ariosto poem partially titled for him, and in another poem he dies at the Battle of Roncevaux ["rahns-voh"] Pass after blowing a horn. For 10 points, name this paladin of Charlemagne featured in a medieval poem about his "song."

ANSWER: Roland (or Orlando; accept *The Song of Roland*; accept Orlando Furioso) [*Writer's note*: The first clue is Matteo Maria Boiardo's *Orlando Innamorato*.]

<Yue, European Literature>

2. This functional group can be added asymmetrically using AD-mix. When pyridine ["PEER-uh-deen"] or the simplest compound with this functional group is added to a two-carbon compound with this functional group, the result is called "denatured." Adding lithium aluminum hydride to acetic acid will generate a compound with this functional group. That compound forms an azeotrope with (*) water at 96% concentration and is most effective as a disinfectant at 70%. The presence of this functional group is denoted with the suffix "O-L." For 10 points, name this functional group whose isopropyl variety is found in a rubbing type of this compound.

ANSWER: alcohol (accept hydroxyl; accept OH; do NOT accept or prompt on "hydroxide" or "OH minus")

<K. Li, Chemistry>

3. This country declared independence in the Act of Abjuration. Federigo Giambelli designed "hellburners" to aid this country's war of independence. The death of a leader of this country was the first assassination of a head of state via handgun. A group known as the "Sea Beggars" helped this country fight against Spain in the (*) Eighty Years' War. The first publicly traded company in the world is this country's East India Company, which colonized Indonesia. Many of this country's rulers originated from the House of Orange-Nassau. For 10 points, name this country, where the "Tulipmania" occurred in its capital Amsterdam.

ANSWER: United Provinces of the Netherlands (or the United Provinces or the Dutch Republic; accept Holland; accept the Kingdom of the Netherlands) [*Writer's note*: William the Silent was assassinated by Balthasar Gérard.]

<L. Li/Suh, European History>

4. **The last chapter of a novel by this author begins with its protagonist leaving the Met’s Cesnola galleries. This author created the socialites Sillerton Jackson and Lawrence Lefferts in a novel in which Mrs. Manson Mingott suffers a stroke. One novel by this author ends with Lawrence Selden discovering Lily Bart’s overdosed body, while another begins with Denis Eady at a (*) church dance. A cat shatters a pickle dish in a novel by this author that ends with the title character’s wife Zeena caring for him and Mattie Silver after their sled crash. For 10 points, name this author of *The House of Mirth*, *The Age of Innocence*, and *Ethan Frome*.**

ANSWER: Edith **Wharton**

<Suh/Yue, American Literature>

5. **These animals first appeared in the fossil record as jawless agnathans. The Devonian period is known as the “age of” these animals and saw the rise of armored placoderms like Dunkleosteus [“DUN-cull-AH-stee-us”]. The transitional genus Tiktaalik [“tick-TAH-lick”] belonged to the sarcopterygian [“sar-KAHP-tuh-RIJ-ee-an”] clade of these animals. That clade also contains the (*) coelacanths [“SEE-luh-canths”], which are considered “living fossils” and were previously thought to be extinct. One of these animals which evolved legs and moved onto land was the first tetrapod. For 10 points, name this group of aquatic vertebrates that includes sharks and piranhas.**

ANSWER: **fish** (prompt on vertebrates or *Vertebrata*; prompt on chordates or *Chordata* before “age”)

<Duffy, Biology>

6. **In a painting by this artist, a still life with fish, eggs, and a mortar and pestle is in front of a window through which Jesus speaks with two sisters. In another painting by this artist, a reveler is crowned during an outdoor celebration by the title god. He’s not Vermeer or Rubens, but this artist of *Christ in the House of Martha and Mary* painted a scene in which a man in front of lance-carrying soldiers receives a (*) key from Justin of Nassau. That painting, *The Surrender of Breda*, was commissioned by Phillip IV, who appears in a mirror in the background of a painting that features a dwarf and two ladies-in-waiting. For 10 points, name this Spanish artist of *Las Meninas*.**

ANSWER: Diego **Velázquez**

<Gioia, Painting>

7. **One of these animals was also known as Phaia after the old woman that raised it. Nestor climbed a tree to survive an event involving one of these animals. One of these animals first appeared after Oeneus [“EE-nee-us”] forgot to sacrifice to Artemis. A centaur advised a hero to drive one of these animals into thick (*) snow to catch it. Meleager [“meh-lee-AY-ger”] killed one of these animals that Atalanta first wounded. Adonis died after being mauled by one of these animals. Circe transformed the crew of Odysseus into these animals. For 10 points, name these four-legged animals in Greek mythology, exemplified by the Calydonian boar.**

ANSWER: wild **pigs** (accept **boars** until mention; accept **sows** or **swines**; accept specific examples like the Crommyonian **sow**, Erymanthian **boar**, or Calydonian **boar**)

<Suh, Mythology>

8. **A ruler of this place had a name that referenced his crooked arm and oversaw the building of this place’s first prison. Another leader of this kingdom was legendarily killed by a lightning bolt. That leader of this kingdom defeated an attack of triplet warriors from a neighboring city. This city’s second king added two months to its calendar; one was named for an object used on (*) Lupercalia, the Februa, and the other was named for a two-faced god of beginnings. This city’s last king, Tarquin the Proud, allied with the Etruscan king Lars Porsena after he was overthrown. For 10 points, name this city whose first king Romulus killed his brother Remus.**

ANSWER: **Rome** (accept **Roma**) [*Writer’s note*: The kings of Rome mentioned are, in order, Ancus Marcius, Tullus Hostilius, Numa Pompilius, and Romulus.]

<CGH, Ancient History>

9. In a 1999 film, Robin Weaver claims that one of these people's feet "never touched the ground." After kissing one of these people, Caleb regurgitates a bloody apple and dies. Recurring motifs that accompany one of these people include hanging stick figures and mounds of stones. In a Robert Eggers film, Thomasin becomes one of these people after (*) Black Phillip offers to help her "live deliciously." A "good" one of these people named Glinda rejoices after a falling house crushes another one of these people, whose sister melts after being splashed with water by Dorothy. For 10 points, name these people, whose "Wicked" type appears in *The Wizard of Oz*.

ANSWER: **witches** [*Writer's note: The first and third clues refer to *The Blair Witch Project*.*]

<R. Li, Film>

10. The destruction of one of these structures named Hangang ["hahn-gahng"] during the Korean War killed more than 500 people. A battle named for one of these structures is considered to mark the end of the Viking Age. The failed Operation Market Garden attempted to capture several of these structures near Arnhem. An incident on one of these structures named for (*) Marco Polo started the Second Sino-Japanese War. Before dying at Hastings, Harold Godwinson won a battle named for one of these structures. Temporary examples of these structures are called "pontoon." For 10 points, the Allies built what kinds of structures to cross the Rhine?

ANSWER: **bridges** (accept Hangang **Bridge**, Stamford **Bridge**, or Marco Polo **Bridge**) [*Writer's note: The second sentence refers to the Battle of Stamford Bridge.*]

<Suh, World History>

11. One movement of this work features the marking "dragging" as strings chromatically ascend before the interjection of a solo clarinet, while another is a waltz in 3/8 time marked "Allegretto pomposo." Those movements quote a Rameau harpsichord piece and Berlioz's "Dance of the Sylphs," respectively. An "Introduction and Royal March" opens this work, which features a (*) glass harmonica in one movement and a xylophone solo quoting the composer's *Danse Macabre* in another titled "Fossils." For 10 points, name this work featuring movements like "Aquarium" and "The Swan" by Camille Saint-Saëns.

ANSWER: *The **Carnival of the Animals*** (or *Le **Carnaval des Animaux***)

<Yue, Music>

12. As of 2019, this city is working with Raj Chetty and other economists to encourage low-income families to move to high-opportunity neighborhoods. A mnemonic to remember the order of street pairs in this city is "Jesus Christ Made [this city] Under Protest." This city offers the tallest public viewing area from a building west of the Mississippi at its Columbia Center. This city's Museum of (*) Pop Culture, once known as Experience Music Project, was designed by Frank Gehry. Companies headquartered in or near this city include Microsoft and Amazon. The Space Needle is located in, for 10 points, what largest city in the state of Washington?

ANSWER: **Seattle**, Washington

<Suh, Geography>

13. The decision in this case alluded to the Massachusetts State Constitution to assert that the federal government was a "government of laws, and not of men." The existence of a semicolon in a law relevant to this case introduced uncertainty about the bounds of the original and appellate jurisdiction of the Supreme Court. The plaintiff in this case sought a writ of (*) mandamus to receive his commission to serve as one of the "Midnight Judges" of John Adams. In this case, John Marshall struck down a portion of the Judiciary Act of 1789 as unconstitutional. For 10 points, name this landmark 1803 Supreme Court case that established judicial review.

ANSWER: ***Marbury v. Madison*** (or *Madison v. **Marbury***)

<Suh, American History>

14. Kosaraju’s algorithm runs *this many* depth-first searches. It’s not four, but a graph cannot be colored with *this many* colors if and only if an odd-length cycle exists. Hyper-threading allows a single core to process *this many* threads. Signed integers are often represented with this number’s complement system. Bubble sort’s runtime is big-O of n to this power. Each step of (*) merge sort recursively splits an array into this many subarrays. Parent nodes have this many children in a common “search tree” with logarithmic search time, and boolean variables have this many possible values. For 10 points, name the number of digits in the binary numeral system.

ANSWER: two (accept two’s complement; accept n square; prompt on binary search tree until “binary” is mentioned)

<Yue, Computer Science>

15. Walter Benjamin’s [“VAL-ter BEN-ya-meen’s”] *Arcades Project* discusses the experiences of the *flâneur* in a French one of these general places. Joel Garreau wrote about the “edge” type of these places. Robert Moses led an effort to remake these places, which are divided into concentric zones in an Ernest Burgess model. Lewis Mumford studied these places, which Jane (*) Jacobs wrote about in her book *The Death and Life of Great American [these places]*. Redlining was a common practice to deny services in parts of these places. These places are often designed in a grid pattern, and their “sprawl” creates nearby suburbs. For 10 points, name these densely populated urban areas.

ANSWER: cities (accept metropolises; accept urban areas before mention; anti-prompt [make less specific] on streets or boulevards or passages before “Garreau”; I guess prompt on town)

<Yue, Sociology>

16. This artist becomes covered in fake blood during her performance at the 2009 VMAs. In a music video, photographers watch while this artist is thrown from a balcony. The sequel to that music video sees this artist poisoning the customers of a diner after being bailed out of prison by Beyoncé. Both of those songs by this artist are on her album *The (*) Fame*. One song by this artist ends with the operator saying “please check the number, or try your call again” over the opening harp melody. This artist repeats the phrase “don’t be a drag, just be a queen” in her song “Born this Way.” For 10 points, name this artist of songs like “Paparazzi” and “Telephone.”

ANSWER: Lady Gaga (or Stefani Joanne Angelina Germanotta)

<K. Li, Trash>

17. A story depicting life in this country ends with a mother crying as snow hits the narrator’s “cold, hard scalp.” A botanist offers to accompany Lilia during a holiday tradition in this country. A blog titled “Raceteenth” is about this country, which Obinze fails to enter. The 103-year-old Mrs. Croft refers to this country’s flag as “splendid.” Yunior’s life in this country is depicted in many Junot [“JUE-no”] Díaz stories. This country is the setting of “When Mr. (*) Pirezada Came to Dine,” and a Chimamanda Ngozi Adichie novel is named for this country. For 10 points, name this destination of many Indian immigrants in Jhumpa Lahiri’s *Interpreter of Maladies*.

ANSWER: United States of America (accept either underlined part; or USA) [*Writer’s note*: The first story is Junot Díaz’s “Invierno.”]

<R. Li, American Literature>

18. An experiment confirming this theory measured the wavelength of light emitted by a canal ray and found that the redshift of the reflected beam was not equal to the blueshift of the original beam. This theory can be used to show that a magnetic field is produced by viewing an electric field through a moving coordinate system. In this theory, light cones are depicted using (*) Minkowski diagrams, which can also be used to explain length contraction. This theory states that the speed of light is constant regardless of the motion of the source or observer. For 10 points, name this theory describing fast-moving objects that has a more expansive “general” version.

ANSWER: special relativity (prompt on just relativity) [*Writer's note*: The second clue refers to the Ives–Stilwell experiment.]

<K. Li, Physics>

19. A character in this play beseeches the audience to “as you from crimes would pardoned be / Let your indulgence set me free” in its final scene. Performances of this play often omit an Act IV masque featuring Iris and Ceres. A song in this play describes “coral made” bones and “pearls that were his eyes.” A character in this play notes that “we are such (*) stuff / as dreams are made on” in anticipation of his daughter’s wedding to the son of Alonso. Stephano and Trinculo are influenced by an enslaved character on an island in this play. Ariel and Caliban appear in, for 10 points, what Shakespeare play about the exiled Duke of Milan, Prospero?

ANSWER: *The Tempest*

<Gioia/Yue, British Literature>

20. This man taught the doctrines of *manducatio impiorum* and sacramental union. He also wrote the Smalcald Articles and the “Small” and “Large” catechisms, components of the *Book of Concord*. Subgroups of a denomination named for this man include the Missouri and Wisconsin Synods. This author of the hymn “A Mighty Fortress is Our God” debated about the (*) Real Presence of Christ with Ulrich Zwingli at the Marburg Colloquy. Based on his belief of *sola fide*, this man controversially added the word “alone” to Romans 3:28 in his German translation of the Bible. For 10 points, name this religious reformer who sparked the Protestant Reformation by creating the Ninety-five Theses.

ANSWER: Martin Luther (accept Lutheranism; accept Lutheran Church)

<Suh, Religion>

21. Potassium ferricyanide functions as the sacrificial variety of these substances in the Sharpless asymmetric dihydroxylation. These substances can be “poisoned” like when lead acetate is added to palladium. These substances will appear along with the reagents in the rate equation, unlike reaction intermediates. Because of the second law of thermodynamics, these substances cannot change the chemical (*) equilibrium of a reaction. These substances cause a reaction to proceed through an alternative transition state with a lowered activation energy. For 10 points, name these substances which increase the rate of a reaction without being consumed by the reaction.

ANSWER: catalysts

<K. Li, Chemistry>

Bonuses

1. This religion's cosmology measures the size of the universe using units called "Rajju," though the religion's schools differ on the exact size and shape of the universe. For 10 points each:

[h] Identify this religion that divides the universe into three realms. In this religion, time is divided into six different epochs called *aras* of increasingly shorter timespans.

ANSWER: **Jainism** (or **Jain** Dharma)

[m] *Description acceptable*. The most important tenet of both Hinduism and Jainism is *ahimsa*, which can be translated as this concept.

ANSWER: **nonviolence** (accept descriptive answers like doing **no harm** or causing **no injury**; prompt on peace or no killing)

[e] The Jain vow of *sallekhana* involves the practitioner engaging in this practice to the point of death by lowering their food intake. After converting to Jainism, Chandragupta of the Mauryan Empire willingly died from doing this.

ANSWER: **fasting** (or **starving**; I guess also accept **not eating**)

<Suh, Religion>

2. Songs of this comic opera genre include *The Mikado*'s "As some day it may happen" and *Ruddigore*'s "My eyes are fully open to my awful situation." For 10 points each:

[h] Name these tongue-twisting, rapid songs frequently used in Gilbert and Sullivan operas, exemplified by their song "I am the very model of a modern Major-General."

ANSWER: **patter** songs

[e] Major-General Stanley sings the aforementioned patter song in a Gilbert and Sullivan opera titled for these people "of Penzance." The title group of these people actually behave quite gentlemanly when commandeering ships.

ANSWER: **pirates**

[m] Another notable patter song is "Ya Got Trouble," sung by the con man Harold Hill in this musical. Harold later poses as a bandleader and sings the song "Seventy-Six Trombones" in this musical.

ANSWER: *The **Music Man***

<Yue, Music>

3. In one novel in this genre, the title character plays the title role in a production of *Hamlet* and finds a scroll that details the story of his life. For 10 points each:

[m] Name these "novels of formation" exemplified by a series of Goethe [**"GUR-tuh"**] novels depicting *Wilhelm Meister's Apprenticeship* and *Journeyman Years*. This genre of novel is often translated as a "coming-of-age" novel.

ANSWER: **bildungsroman** (prompt on coming-of-age novel before mention)

[e] Goethe's best-known work is a closet drama in two parts titled for this man. This man wins Gretchen's love after a bargain with the Devil that has become synonymous with a morally corrupting deal.

ANSWER: **Faust** (do NOT accept or prompt on "Doctor Faustus")

[h] Goethe wrote *Wilhelm Meister's Apprenticeship* with the support of the author of this play, which kickstarted the *Sturm und Drang* movement. This play contrasts the relative evils of the two brothers Franz and Karl Moor.

ANSWER: *The **Robbers***

<Yue, European Literature>

4. The sitcom *Friends* frequently featured these kinds of episodes after the success of “The One Where No One’s Ready.” For 10 points each:

[h] Name this type of episode exemplified by *Breaking Bad*’s “Fly” and *Parks and Recreation*’s “Leslie and Ron,” where characters are often trapped in one location in real time. These episodes often save on production costs.

ANSWER: a **bottle** episode

[e] This sitcom’s 1991 episode “The Chinese Restaurant” is considered a landmark bottle episode. In that episode, George Costanza, Elaine Benes, and comedian Jerry try to get dinner without a reservation in the title restaurant.

ANSWER: ***Seinfeld***

[m] Another sitcom staple is the clip show, exemplified by this animated series’ episode titled for a character’s “Mind Blowers.” That episode replaced this series’ usual “Interdimensional Cable” mid-season episode.

ANSWER: ***Rick and Morty***

<Yue, Trash>

5. One attempt at accomplishing this task involved launching an extremely heavy iron hammer at a carriage, while another attempt involved flinging a lead-filled lute at a person. For 10 points each:

[h] Name this task that Zhang Liang, Jing Ke, and Gao Jianli all failed to achieve.

ANSWER: **assassination** of Qin **Shi Huangdi** (accept reasonable equivalents of “assassination”; accept **Ying** Zheng or **Zhao** Zheng in place of Qin Shi Huangdi; prompt on just **assassination**)

[e] Zhang Liang would later become a key strategist for Liu Bang, who defeated Xiang Yu [“**shiang-yoo**”] and founded this dynasty.

ANSWER: **Han** dynasty

[m] No one knows the actual cause of death of Qin Shi Huang, but he may have died from ingesting mercury pills given to him by court alchemists in a misguided effort to help him achieve this state.

ANSWER: become **immortal** (accept reasonable equivalents like **live forever**; prompt on good **health**)

<Suh, Ancient History>

6. Mabel Loomis Todd and Thomas Wentworth Higginson were the first publishers of this poet’s poems, and set the standard for how to treat the dashes at the ends of many of her poems’ lines. For 10 points each:

[e] Name this American poet who wrote a poem in which a speaker enters a “Carriage [that] held but just Ourselves – / And Immortality!” in her poem “Because I could not stop for Death.”

ANSWER: Emily **Dickinson**

[m] In another Dickinson poem, the speaker hears this “Blue – uncertain – stumbling” sound before “the Windows failed – and then / I could not see to see –.” This sound occurs “when I died –,” during a “Stillness in the Room.”

ANSWER: a **Fly’s buzz** (prompt on partial answer; accept “I heard a **Fly buzz** – when I Died”)

[h] Another Dickinson speaker paradoxically recounts that this specific title event happened twice before her death, and “It yet remains to see / If Immortality unveil / A third event to me.” The specific term is required.

ANSWER: “my **life closed**” (accept word forms, but do NOT accept synonyms; accept “My **life closed** twice before its close”)

<Yue, American Literature>

7. This man claimed that pictures of him and his family drinking and partying at a Miami nightclub were Photoshopped, prompting photographer Seth Browarnik to release more of them. For 10 points each:

[h] Name this American evangelical. One of this man's sons Instagrammed a picture of \$12,000 during a visit to Michael Cohen, who hired one of this man's employees to rig online polls for the Trump campaign.

ANSWER: Jerry **Falwell**, Jr.

[m] During his tenure as this university's president, Falwell has drawn scrutiny for shady business deals. A *Politico* exposé on Falwell was authored by Brandon Ambrosino, a graduate of this evangelical Christian university.

ANSWER: **Liberty** University

[e] Liberty University is located in this state, whose Attorney General Mark Herring and Governor Ralph Northam were embroiled in a blackface scandal. This state's capital is Richmond.

ANSWER: **Virginia**

<R. Li, Current Events>

8. This centuries-long campaign is considered to have started with a victory at the Battle of Covadonga by Pelagius of Asturias. For 10 points each:

[m] Name this military campaign that ended with the surrender of Muhammad XII, also known as Boabdil. Soon after the end of this campaign, Jews who would not convert to Christianity were expelled from the reconquered territories.

ANSWER: the **Reconquista**

[h] The 1147 Siege of Lisbon is considered to be a victory during the Reconquista and also this other campaign which was started as a response to the fall of Edessa to the Zengids ["ZEN-ghids"] three years prior.

ANSWER: **Second Crusade** (prompt on Crusades)

[e] About a hundred years later, Lisbon became the capital of this kingdom, which now shares the Iberian Peninsula with Spain.

ANSWER: **Portugal**

<Suh, European History>

9. For 10 points each, answer some questions about the physics of water clocks.

[h] The rate of water flow in a water clock can be described by this law, which describes the velocity of a jet of fluid given the amount of fluid that lies above it. This law is a special case of Bernoulli's equation.

ANSWER: **Torricelli's** law

[e] Torricelli's law states that the velocity of the fluid is equal to the speed possessed by an object undergoing this type of motion if dropped from the same height. This type of motion can cause the sensation of weightlessness.

ANSWER: free **falling**

[m] Water clocks are only described by Torricelli's law when this property, which is measured in poise ["pwaz"], can be ignored. This property can be thought of as arising from friction within a fluid as it flows.

ANSWER: dynamic **viscosity**

<K. Li, Physics>

10. In Horace Wilson's translation of a poem by this author, the title object is introduced as "in form some elephant, whose sportive rage / Ramparts, scarce equal to his might, engage." For 10 points each:

[h] Name this Sanskrit poet of a poem in which that title *Cloud Messenger* journeys to the city of the Yakshas, Alakā, at the request of a servant of Kubera.

ANSWER: **Kālidāsa**

[m] The blank chapter "Vanished into the Clouds" implies the death of this title character of an unrelated work. This character is married to Lady Aoi ["**AHH-oi**"] and is often called "Shining."

ANSWER: Hikaru **Genji** (or Shining **Genji**; accept *The Tale of Genji*)

[e] Aristophanes's comedy *The Clouds* satirizes this philosopher, who leads the Thinkery in that play. Plato's *Apology* names *The Clouds* as one of the reasons for the trial of this man, who features in most Platonic dialogues.

ANSWER: **Socrates**

<Yue, World Literature>

11. According to a Canadian thinker, these things can be divided into "hot" and "cool" categories based on how rich they are in sensory data. For 10 points each:

[m] Name these "Extensions of Man" described by Marshall McLuhan in a book titled for *Understanding [them]*. In that work, he asserted that "[one of these things] is the message."

ANSWER: the **media** (or the **medium**)

[e] McLuhan asserted that this "cool" medium "speaks, and yet says nothing." In *The Gulf War Did Not Take Place*, Jean Baudrillard argued that reality could not be distinguished from propagandistic war footage broadcast by CNN through this medium.

ANSWER: **television** (or **TV**)

[h] This philosopher disagreed with McLuhan's "ideology about the end of writing," believing phonetic writing to be "the medium of the great...adventure of the West." This man wrote *Writing and Difference*.

ANSWER: Jacques **Derrida**

<Yue, Sociology>

12. This man painted many landscapes at the Attersee Lake, and the locals called him *Waldschrat*, meaning "forest demon." For 10 points each:

[m] Name this painter of *The Kiss* who modeled multiple works on the model Adele Bloch-Bauer.

ANSWER: Gustav **Klimt**

[h] In an example of his interest with gold, Klimt depicted this mythological figure being aroused by a shower of gold surrounding her.

ANSWER: **Danaë** ["**dah-NAY**"]

[e] Klimt started his professional career by painting murals in public buildings on the *Ringstrasse*, a circular road in this city. Later, Klimt became a founding member of a "Secession" art movement based in this capital of Austria.

ANSWER: **Vienna** (accept **Vienna** Secession; accept **Wien**)

<Suh, Painting>

13. A theorem named for Stefan Banach asserts that every contraction mapping on a nonempty complete metric space has one of these things. For 10 points each:

[h] Identify these things. Another theorem named for Brouwer states that every continuous function from a compact, convex set to itself has one of these things.

ANSWER: **fixed point**

[m] These numbers can be realized as the fixed points of the aliquot sum function. These numbers equal the sum of their positive divisors, excluding themselves.

ANSWER: **perfect** numbers

[e] It is an open question whether any perfect number with this property exists. Any number with this property can be expressed as “two n plus one” for an integer n , and this property is the opposite of even.

ANSWER: **odd**

<R. Li, Math>

14. This woman spearheaded a failed planned community in Arthurdale, West Virginia for the families of unemployed miners. For 10 points each:

[e] Name this woman who convinced her husband to stay in politics after he lost the normal use of his legs to a paralytic disease then thought to be polio. She was First Lady from 1933 to 1945.

ANSWER: **Eleanor Roosevelt** (prompt on Roosevelt) [*Writer's note*: Apparently, FDR suffered from Guillain–Barré syndrome, not polio.]

[m] Roosevelt chaired the Presidential Commission on the Status of Women, whose report concluded that this proposed amendment was not the best way to achieve female equality. Phyllis Schlafly opposed this amendment.

ANSWER: **Equal Rights** Amendment (or **ERA**)

[h] Near the end of her life, Roosevelt chaired the Tractors for Freedom Committee, which was formed in the wake of this event in a failed effort to ransom members of Brigade 2506.

ANSWER: **Bay of Pigs** invasion (or Operation **Zapata**)

<Suh, American History>

15. The sign convention for this atomic property arises because the process it describes is usually exothermic. For 10 points each:

[m] Name this atomic property which is defined as the energy released when an electron is added to a neutral atom in the gaseous phase.

ANSWER: **electron affinity** (do NOT accept or prompt on “electronegativity”)

[e] The electron affinities for these generally unreactive elements are negative, meaning that they cannot form stable anions. These odorless and colorless elements all have a full valence shell.

ANSWER: **noble** gases (or **inert** gases; or **group 18** elements)

[h] This quantity, which was developed by Ralph Pearson, is equal to half the difference between ionization energy and electron affinity. Species with a high value for this property tend to be small, charged, and weakly polarizable.

ANSWER: **hardness**

<K. Li, Chemistry>

16. In this novel, a wife looking for her husband is trampled to death by a horse that was startled by the sound of a gunshot. For 10 points each:

[h] Name this novel that details the final day in the life of alcoholic consul Geoffrey Firmin, who dies in Mexico on the Day of the Dead.

ANSWER: *Under the Volcano*

[m] In addition to Malcolm Lowry, this other British writer wrote about the death of an alcoholic in Mexico in his novel *The Power and the Glory*. That novel with a “whisky priest” protagonist is one of his four Catholic novels.

ANSWER: Graham Greene

[e] Greene’s novel *Our Man in Havana* centers on a vacuum salesman recruited into this profession. In an Ian Fleming novel, the Cuban assassin Francisco Scaramanga is foiled by James Bond, a character with this profession.

ANSWER: a spy (accept secret agent or MI6 agent)

<Yue, British Literature>

17. This general genre of music is a prominent influence on works like *Háry János*, *Allegro barbaro*, and *Concerto for Orchestra*, as exhibited by their use of artificial scales and non-traditional modes. For 10 points each,

[m] Name this genre of music. The composers Béla Bartók and Zoltán Kodály [“CO-die-ee”], two founders of the field of ethnomusicology, collected many works of this genre.

ANSWER: folk music (accept Hungarian folk songs, tunes, or dances; accept Hungarian peasant songs, tunes, or dances)

[e] This composer collected many folk songs from the English countryside, informing his pentatonic harmonies in works like *Fantasia on Greensleeves* and *The Lark Ascending*.

ANSWER: Ralph Vaughan Williams

[h] Bartók’s most notable suite of folk dances, a set of six containing the “Stick Dance” and “Sash Dances,” originates from this non-Hungary country. Composers from this country include violinist George Enescu.

ANSWER: Romania

<Yue, Music>

18. For 10 points each, answer some questions about the Ann Arbor staging system.

[m] The Ann Arbor system was developed to classify the severity of this group of blood cancers. This type of cancer comes in both Hodgkin’s and non-Hodgkin’s varieties.

ANSWER: lymphoma

[h] Under the Ann Arbor system, the principal stage of cancer is determined by the number and location of tumors with respect to this muscle. Irritation of the phrenic nerve, which innervates this muscle, results in spasmodic contractions of this muscle.

ANSWER: thoracic diaphragm

[e] The letter “S” can be appended to the numerical stage of cancer if the cancer has spread to this organ. This organ sequesters old red blood cells because like the kidneys and liver, it is involved in blood filtration.

ANSWER: spleen

<K. Li, Biology>

19. This deity tried to hoard all of the world's wisdom in a pot, but he accidentally dropped the pot and let wisdom spread throughout the world. For 10 points each:

[m] Identify this West African trickster god and master of stories.

ANSWER: Kwaku **Anansi**

[e] Anansi often takes the form of one of these animals. In this form, Anansi used webs to ensnare and capture a leopard at the behest of Nyame.

ANSWER: **spider**

[h] As part of his quest to win the world's stories, Anansi also had to capture an invisible fairy, which he did by creating one of these objects that stuck to the fairy and immobilized her when she hit it.

ANSWER: gum **doll** (do NOT accept or prompt on "tar baby" or any answers that mention "tar") [*Writer's note:* The tar baby comes from a different story, in which it was used to capture Anansi himself.]

<Duffy, Mythology>

20. Sir John Chilcot led a public inquiry into British involvement in this war. For 10 points each:

[e] Chilcot's report concluded that this war was unnecessary, and that in 2003, Saddam Hussein did not pose a great threat to British interests.

ANSWER: **Iraq** War (or the War in **Iraq**; or **Second Gulf** War)

[m] Under this Prime Minister, the United Kingdom participated in the Afghanistan and Iraq Wars. This close ally of George W. Bush signed the Good Friday Agreement with Northern Ireland in 1998.

ANSWER: Tony **Blair**

[h] This successor of Tony Blair ordered the Chilcot report in 2009. Regarding the Afghanistan and Iraq Wars, this man often said "War is tragic," which echoed Blair who had earlier said "War is terrible."

ANSWER: Gordon **Brown**

<Suh, British History>

21. Joan schemes to get this character to visit Trantridge in order to "claim kin." For 10 points each:

[m] Name this character whom Angel Clare calls "Demeter" and "Artemis." She is implied to have been raped by Alec in a forest called "The Chase."

ANSWER: **Tess** Durbeyfield (or **Tess** of the d'Urbervilles; prompt on **Durbeyfield**)

[e] Tess is the main character of *Tess of the d'Urbervilles*, a novel by this English author of *Far from the Madding Crowd* and *The Mayor of Casterbridge*.

ANSWER: Thomas **Hardy**

[h] After killing Alec, Tess is captured at this location by the police. In his poem "Guilt and Sorrow," William Wordsworth calls out to the "pile" of this place.

ANSWER: **Stonehenge**

<Suh, British Literature>