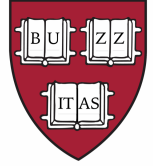


Harvard Fall Tournament XIII

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Finals 1

Tossups

1. **A medieval legend claims that certain members of this profession wore a rope around their ankle so that others could recover their body if they died on the job. Abiathar [“uh-BYE-uh-thar”] and his descendants were banned from serving in this profession. Certain members of this profession wore ephods [“EE-fahds”] and used the Urim and the Thummim for (*) divination. While serving in this profession, Nadab and Abihu were killed for using “strange” fire. The first person to hold this profession was Aaron, who was also called a “high” one of these people. For 10 points, identify these religious officials who performed sacrifices at the Temple in Jerusalem.**
ANSWER: Jewish priests (or kohen; accept high priest; prompt on less specific answers like clergy or religious officials until mention; generously prompt on Levites; do NOT accept or prompt on “Pharisees”) <Suh>

2. **The Tasaday people were invented in a hoax by this country’s tourism minister in the 1970s. This country’s Zamboanga Peninsula has historically been a center of Islam in its region. This country’s president lives in the Malacanang Palace. The rice terraces of this country’s Ifugao region are a UNESCO world heritage site. The Ilocano and (*) Cebuano languages are common for inter-group communication in this country, and this country contains the Bangsamoro autonomous region. This country’s second largest city, Quezon City, is located north of its capital on the island of Luzon. For 10 points, name this Asian island nation with capital at Manila.**
ANSWER: the Philippines <Myers>

3. **The Larmor frequency is proportional to a constant given by this Greek letter, and a factor with this letter is applied to all components of an energy–momentum four-vector. Oxygen has a value of 7/5 for a constant with this Greek letter, the adiabatic index. This letter denoting particles produced by an electron–positron collision also denotes a factor multiplied by the proper time in time dilation, the (*) Lorentz factor. The brightest events in the universe are named for “bursts” of rays named with this Greek letter. For 10 points, give this Greek letter naming a type of penetrating radiation where photons are emitted, higher in energy than beta or alpha radiation.**
ANSWER: gamma (accept specification of lower or upper cases) <Yue>

4. **A woman with this last name won a 1968 gubernatorial election while suffering from uterine cancer, but died soon after being elected. A man with this last name corresponded with Russian mystic Nicholas Roerich and ran on the Progressive Party ticket in the 1948 presidential election. Another man with this last name and Curtis LeMay ran on the (*) third-party ticket in the 1968 presidential election. That man, who was crippled after a 1972 assassination attempt, claimed he supported segregation now, tomorrow, and forever. For 10 points, give this surname of politicians such as an Alabama governor, George, who made “The Stand in the Schoolhouse Door.”**
ANSWER: Wallace (accept Lurleen Wallace, Henry A. Wallace, or George Wallace) <Suh>

5. In one story, this man wins a shooting contest against a mercenary, kills the mercenary, and then blows the mercenary's horn to fake his own death. This figure's love interest was originally conceived as a shepherdess character in May Day festivities. This man's very tall sidekick ironically has the epithet (*) "Little" to his name, while another of this man's companions is Friar Tuck. Later stories made this leader of the Merry Men a rough contemporary of Richard the Lionheart who lives with his followers in the Sherwood Forest. For 10 points, name this archenemy of the Sheriff of Nottingham, a legendary English outlaw and master archer.

ANSWER: Robin Hood <Suh>

6. Lipid hormones regulate this process by complexing with a receptor and binding to the hormone response element. The Hox genes produce products that determine the identity of each segment in an animal by regulating this process. NF- κ B ["N-F-kappa-B"] is translocated into the (*) nucleus to regulate this process. Upregulation of this process can be caused by acetylation of histones or recruitment of RNA polymerase. In eukaryotes, this process can be followed by splicing which removes introns from pre-mRNA. For 10 points, name this process in which mRNA is produced based on a DNA template.

ANSWER: transcription <K. Li>

7. A man named Jesse takes over his family's farm in this place after his four brothers die in the Civil War. A doctor who lives here tells another man, "Everyone in the world is Christ and they are all crucified." This is the residence of Dr. Parcival and the setting of the story "Godliness," and a man living under a pseudonym here recounts when he was kicked out of Pennsylvania for allegedly (*) molesting young boys. Residents of this town including Dr. Reefy and Adolph Myers tell their stories to a newspaper reporter of this town named George Willard. For 10 points, name this fictional Ohio town that titles a short story collection by Sherwood Anderson.

ANSWER: Winesburg, Ohio (prompt on Ohio until mention) <Suh>

8. Composer and genre required. The last of these works opens with glockenspiel chimes and quotes Rossini's *William Tell Overture*, while another begins with the strings stating a C-major melody in unison. The finale of one of these works features repeated violin high-A eighth-notes that represent "forced rejoicing" according to Solomon Volkov's *Testimony*. One of these works contains movements called (*) "My Native Field" and "Victory," while another was a "reply to just criticism" after harsh rebuke of the composer's opera *Lady Macbeth of the Mtsensk District*. For 10 points, name these works by a Soviet composer that include the "Leningrad."

ANSWER: symphonies by Dmitri Shostakovich (prompt on partial answer) <Yue>

9. William Douglas experienced one of these events after he was stabbed by James II of Scotland. Wenceslaus IV may have died after hearing about one of these events that occurred after a rock hit Jan ["YON"] Želivský. One of these events occurred as a response to Rudolf II's Letter of Majesty and was led by Count Thurn, who was later elected a (*) "Defender of the Faith." Divine intervention was attributed to two Bohemian noblemen surviving one of these events that started the Thirty Years' War. That event is known as the "Second" one of these of Prague. For 10 points, identify these events during which people were thrown out of windows.

ANSWER: defenestrations (accept descriptive answers like throwing someone out of a window until mention; accept First or Second Defenestration of Prague) <Suh>

10. A person with this surname answers the question of which of two siblings has greater influence both as a cynic and as a believer. One person with this surname says in a tunnel that her parents' "lives could be in jeopardy, or worse, their marriage." An Insuricare employee with this surname is helped by Rick Dicker, and another person with it is approached by (*) Winston Devour to rehabilitate public relations before the Screenslaver attacks. Several people with this surname defeat the Omnidroid 10, the creation of Syndrome. For 10 points, give this surname of a family of animated superheroes featured in two Pixar films.

ANSWER: the Incredibles (accept the Parrs) <Yue>

11. In a poem, this figure is a housemaid to Major Plunkett, and the island that the poem is set on is also referred to as this figure. In a play, one character asks this figure to “make me immortal with a kiss,” and this figure is compared to “those Nicéan barks of yore” in an Edgar Allan Poe poem extolling “the glory that was Greece.” This figure is transported by Phorkyas during the (*) Classical Walpurgisnacht after the death of Gretchen in one play. That play’s title character woos this figure after she leaves Menelaus’s palace. For 10 points, name this owner of a “face that launch’d a thousand ships” in Christopher Marlowe’s *Doctor Faustus*.

ANSWER: Helen of Troy <Yue>

12. The meeting between the artist of this painting and its subject is the focus of Christina Baker Kline’s novel *A Piece of the World*. This painting currently sits by the stairwell on the fifth floor of the MoMA. The artist said that he was inspired by a figure moving “like a crab on a New England shore” to make this work, and a location in its background shows a bicycle and a leaning (*) ladder. This painting was inspired by Anna Olson, who was often said to have suffered from polio, and in it, a figure in a pink dress lies sprawled alone in a field, looking up at a farmhouse in the distance. For 10 points, name this painting by Andrew Wyeth.

ANSWER: Christina’s World [Ed’s note: most modern historians acknowledge that Olson probably had something like Charcot–Marie–Tooth disease, but polio was the more well-known detail about Olson for decades.] <Cohen>

13. This character tells another character that “none of his certainties [are] worth one strand of a woman’s hair.” This character is taught to spray seawater into the sky by a character who sees a Fernandel film with him, and he observes Thomas Pérez lagging behind a procession. This character wants to be (*) greeted “with howls of execration” at his execution. This neighbor of the dog-owner Salamano and friend of Raymond Sintès begins a novel saying “Mama died yesterday, or maybe today.” This character apathetically remarks that he feels the sun’s heat before shooting an Arab. For 10 points, name this protagonist of Albert Camus’s *The Stranger*.

ANSWER: Meursault (prompt on *The Stranger*, *L’Étranger* or *The Outsider*) <Yue>

14. This man “was not Iago and not Macbeth” according to one work, and *The Life of the Mind* discusses his “manifest shallowness.” Ward Churchill referred to 9/11 victims as “little [this figure]s,” and according to one work this “joiner” could only utter clichés. This man’s claim that he followed Kantian ethics is rebutted in a book by the author of *The (*) Human Condition*. That work originally written for the *New Yorker* depicts this man in a glass cage in a courtroom, and is subtitled “a report on the banality of evil.” For 10 points, name this Nazi official and organizer of the Holocaust who titles a Hannah Arendt analysis about his trial in *Jerusalem*.

ANSWER: Adolf Eichmann (accept Eichmann in *Jerusalem*) <Yue>

15. “Clandestine marriages” conducted in these places were banned by Hardwicke’s Act of 1753. One of these institutions was the Presidio Modelo, which was built on the Isle of Pines by Gerardo Machado. A notorious one of these locations was Marshalsea. An island that housed one of these institutions is now a refuge for (*) African penguins. That island that housed one of these places is Robben Island. A high school building was turned into one of these institutions by the Khmer Rouge. Three men who used a raft to leave one of these places probably survived crossing the San Francisco Bay. For 10 points, name these institutions, one of which was Alcatraz.

ANSWER: prisons (prompt on concentration camps) <Suh>

16. These entities are represented as the intersection between two parabolas in Marcus theory, developed to replace a theory of them not accounting for quantum tunneling. These entities have five members in an SN2 reaction, and they most resemble the species they are closest in free energy to by (*) Hammond’s postulate. These entities are saddles on potential energy surfaces, and are denoted by a double dagger. An activated complex turns into one of these structures with the maximum potential energy along the reaction coordinate. For 10 points, describe these unstable intermediate species that form as a reaction reaches its highest energy, often denoted TS.

ANSWER: transition states (prompt on activated complex; prompt on partial answer) <Yue>

17. A Robert Herrick poem compares these objects to “the pearls of morning’s dew, / Ne’er to be found again.” In one poem, the narrator recalls these objects while on his couch “in vacant or in pensive mood.” In that poem, these objects are as “Continuous as the stars that shine / And twinkle on the milky way.” Located “along the margin of a bay,” these objects (*) “flash upon that inward eye / Which is the bliss of solitude.” “Ten thousand” of these objects are seen “fluttering and dancing in the breeze” while the narrator “wandered lonely as a cloud.” For 10 points, name these golden flowers that the narrator of a William Wordsworth poem saw.

ANSWER: daffodils (prompt on flowers until mention) <Suh>

18. At the end of a film from this country, a man with six children tells a priest that “one more wouldn’t make it any more difficult,” restoring that priest’s faith in humanity. A director from this country often employed low-angle framing and “pillow” shots, and another adapted *Macbeth* in his film (*) *Throne of Blood*. In a film from this country, a man later revealed to be the orphaned son of a farmer rings alarm bells to force fearful villagers to welcome the title group of people. In that film, farmers fend off a bandit raid by hiring the titular group of people. For 10 points, name this country, the setting of Akira Kurosawa’s *Rashomon* and *Seven Samurai*.

ANSWER: Japan <Yue>

19. This man joked that his failed assassin should receive firearms training in prison. This man dueled Paul Déroulède after the latter accused this man of being involved in the Panama scandals. This man was the owner of the newspaper *L’Aurore* [“low-ROAR”] that published Émile Zola’s (*) “J’Accuse” letter. Political cartoons often labeled this man as “The Tiger” to highlight his anti-German sentiments. This man was shot by anarchist Émile Cottin during his negotiations with Woodrow Wilson and David Lloyd George. For 10 points, name this member of the “Big Four” who was the Prime Minister of France during the Paris Peace Conference.

ANSWER: Georges Clemenceau [“KLE-men-so”] <Suh>

20. This man proved that the area bounded by any smooth convex curve and a secant line cannot be represented as an algebraic function of that secant, a result known as his namesake “theorem about ovals.” Samuel Pepys [“peeps”] posed a namesake “problem” to this man regarding the likelihood of rolling sixes from certain numbers of dice. This man devised a thought experiment examining the different paths a (*) cannonball fired off a mountain would take at varying velocities. The discovery of calculus was hotly disputed between Gottfried Leibniz and this man. For 10 points, name this scientist who apocryphally conceived of his theory of gravity after an apple fell on his head.

ANSWER: Isaac Newton <R. Li>

21. After the 1648 Battle of Prague, this nation’s army looted many valuable artifacts collected by Rudolf II, including the *Codex Gigas* and *Codex Argenteus*. This nation’s victory in the Torstenson War led to an exemption from the Sound Dues. A queen of this nation abdicated and moved to Rome to live as a guest of five (*) Popes. That monarch of this country briefly studied under René Descartes [“day-CART”]. Axel Oxenstierna served as chancellor of this nation under that monarch and her father, who intervened in the Thirty Years’ War against the Holy Roman Empire. For 10 points, name this country that Gustavus Adolphus ruled from Stockholm.

ANSWER: Sweden <Suh>

Bonuses

1. The Batalha Monastery was built to commemorate this battle. For 10 points each:

[10] Identify this 1385 battle where John of Aviz defeated John I of Castile to preserve his country's independence.

ANSWER: Battle of **Aljubarrota** ["al-hoo-ba-roh-tah"]

[10] The Battle of Aljubarrota was a decisive victory for this nation that shares the Iberian peninsula with Spain.

ANSWER: **Portugal**

[10] Around 200 years after Aljubarrota, Portugal was briefly joined with Spain in a personal union under the rule of this king. While under this king's rule, the Netherlands agitated for independence, thus launching the Eighty Years' War.

ANSWER: **Philip II** of Spain <Suh>

2. This character quotes one of Aesop's fables by telling off another character for having "sung your shame and dropped your cheese, / To let the fox laugh at your emptiness." For 10 points each:

[10] Name this character, who uses his servant Mosca to mess with Voltore, Corbaccio, and Corvino as they try to inherit his fortune.

ANSWER: **Volpone**

[10] *Volpone* is a play by this author of *The Alchemist* and *Bartholomew Fair*, a contemporary of William Shakespeare.

ANSWER: Benjamin **Jonson** (or Ben **Jonson**)

[10] Volpone interacts with English visitors like this crazy knight who discusses business plans with Peregrine in a Venetian piazza and whose talkative wife greatly annoys Volpone.

ANSWER: Sir **Politic Would-Be** (accept either underlined answer) <Yue>

3. For 10 points each, answer some questions about Nas's seminal 1994 album *Illmatic*.

[10] According to an oft-quoted line from the second track of *Illmatic*, the reason why Nas never sleeps is because sleep has this relation to death. Kendrick Lamar quotes that line in his song "Sing About Me, Dying of Thirst."

ANSWER: **cousin**

[10] That first track is titled for this city, the center of East Coast hip hop and the home of Brooklyn rappers like The Notorious B.I.G.

ANSWER: **New York** City (accept **NYC**; prompt on **Brooklyn** before mentioned)

[10] In "Ether," a track off of Nas's 2001 album *Stillmatic*, Nas continued his notorious feud with this other New York rapper behind *Reasonable Doubt* and *The Blueprint*, whose most recent record was *4:44*.

ANSWER: **Jay-Z** (or Shawn Corey **Carter**; accept **Hova**) <Yue>

4. Franklin Pierce unsuccessfully tried to annex this island through the Ostend Manifesto. For 10 points each:

[10] Name this largest Caribbean island that was often the target of filibusters. Jefferson Davis and Robert E. Lee declined offers to lead expeditions to this island.

ANSWER: **Cuba**

[10] This Venezuela-born adventurer was executed in Havana after an unsuccessful 1851 filibustering expedition. He designed the modern flag of Cuba.

ANSWER: Narciso **López**

[10] Another filibuster was this American mercenary who briefly took over Nicaragua, Although his government was recognized by Franklin Pierce, he was soon ousted and executed by Honduran authorities.

ANSWER: William **Walker** <Suh>

5. For 10 points each, answer some questions about the digestive system.

[10] This longest portion of the digestive system is responsible for most nutrient absorption. This organ is mildly alkaline as a result of secretions it receives through the pancreatic duct.

ANSWER: **small intestine** (prompt on intestine; do NOT accept “large intestine”)

[10] The small intestine maximizes nutrient absorption efficiency with these tiny finger-like protrusions found on the apical surface of enterocytes. The cytoplasmic extensions form a brush border in the intestine.

ANSWER: **microvilli** (do NOT accept or prompt on “villi”)

[10] These regions in the small intestine contain M cells which lack microvilli. The M cells in these lymphoid regions attract enteric pathogens and pass antigens to dendritic cells contained within these regions.

ANSWER: **Peyer’s patches** (accept **aggregated lymphoid nodules**; or **PP**; prompt on partial answer) <K. Li>

6. Michel Foucault’s *The Order of Things* begins with an analysis of the one of these objects. For 10 points each:

[10] Name these objects that according to a Walter Benjamin work lose their “aura” or cultural context upon reproduction.

ANSWER: works of **art** (accept synonyms; accept **paintings**)

[10] Benjamin was a philosopher from this country. The school of thinkers in this country that Benjamin belonged to was named for the Goethe University Frankfurt.

ANSWER: **Germany**

[10] This member of the Frankfurt School critiqued the consumerism and technological rationality of twentieth-century society in his work *One-Dimensional Man*.

ANSWER: Herbert **Marcuse** <Yue>

7. Ziegler–Natta catalysts can be used in this type of reaction. For 10 points each:

[10] Name this type of reaction which comes in “living,” ring-opening, and radical varieties among others. This type of reaction can also come in chain-growth and step-growth varieties.

ANSWER: **polymerizations**

[10] Polyethylene glycol is prepared by mixing the simplest type of this compound with ethylene glycol and a catalyst. These ring strained compounds can be cross-linked with various nucleophiles to form their namesake resins.

ANSWER: **epoxide** (accept **epoxy**)

[10] Thermal properties of polymers can be analyzed with the differential scanning variety of this technique. Another variety of this technique is the bomb type which has a constant volume, and it can be simply performed with a coffee cup.

ANSWER: **calorimetry** (accept **calorimeter**) <K. Li/Yue>

8. This opera’s aria “Plus blanche que la blanche hermine” includes an unconventional solo for the viola d’amore. For 10 points each:

[10] Name this *grand opera* which ends with Valentine and Raoul marrying each other. Unfortunately, their marital bliss is short-lived, as both are killed during the St. Bartholomew’s Day Massacre.

ANSWER: *Les **Huguenots*** (or *The **Huguenots***)

[10] *Les Huguenots* is an opera by Giacomo Meyerbeer, who was famously attacked along with Felix Mendelssohn for being Jewish in a pamphlet by this composer. Other controversies involving this composer include overt racist themes in his opera *Parsifal*.

ANSWER: Richard **Wagner**

[10] *Les Huguenots* is set in and was premiered in this country, the center of European opera in the early 19th century. Other composers from this country include Jacques Offenbach and Georges Bizet.

ANSWER: **France** <Chu>

9. David played the harp whenever Saul experienced this condition. For 10 points each:

[10] Identify this condition during which a supernatural being takes control of a human body. This condition can be ended with an exorcism.

ANSWER: spirit **possession** (or demonic **possession**; accept word forms like being **possessed**)

[10] After Jesus exorcised a man in the Gospel of Matthew, the group of demons collectively known as Legion went into a herd of these animals, who then fell off a cliff and drowned.

ANSWER: **pigs**

[10] During a drum-beating ceremony known as *bembé* in this religion, certain adherents experience possession, which is also known in this religion as “mounting the horse.”

ANSWER: **Santería** (or **Regla de Ocha**; or La **Regla de Ifá**; or **Lucumí**) <Suh>

10. A treatise by this man outlines the 3 significant modes of painting: impressions, improvisations, and compositions. For 10 points each:

[10] Name this artist who wrote “Concerning the Spiritual in Art.” After his painting *Last Judgement* was rejected by the NKM, he helped form a movement that published a noted “Almanac.”

ANSWER: Wassily **Kandinsky**

[10] Kandinsky was instrumental in founding this 20th century Expressionist movement, along with Franz Marc.

ANSWER: The **Blue Rider** (or *Der Blaue Reiter*)

[10] Kandinsky also published a treatise praising the “point,” the “plane,” and this other geometric concept that comes in between. Barnett Newman’s “zips” are essentially big paintings of these things.

ANSWER: **lines** (accept *Point and Line to Plane*) <Gioia>

11. For 10 points each, answer some questions about the wave nature of light.

[10] Name this experiment first performed by Thomas Young. In it, the namesake construction can be used to produce an interference pattern, illustrating the wave nature of light.

ANSWER: **double-slit** experiment (prompt on Young’s slit experiment or Young’s interference experiment)

[10] One can classically model the outcome of the double-slit experiment using the principle named for this Dutch scientist, which states that each point on a wavefront can be treated as a source of spherical wavelets.

ANSWER: Christiaan **Huygens**

[10] According to this variant of the double-slit experiment, one can record the path of each photon, removing the interference pattern, and then destroy the path information to get the interference back again.

ANSWER: **quantum eraser** experiment <Yue>

12. This writer first rose to prominence by winning the *Juegos* [“**hoo-ay-goes**”] *Florales* poetry contest held in her country’s capital. For 10 points each:

[10] Name this first Latin American winner of the Nobel Prize in Literature, known for poems like “The Decalogue of the Artist.” Her passion for education is demonstrated in the poem “His Name is Today.”

ANSWER: Gabriela **Mistral** (or Lucila Godoy **Alcayaga**)

[10] This other Latin American writer used an Albert Camus quote to title her 2017 novel, *In the Midst of Winter*. Her very first novel describes the travails of the Trueba family and is titled *The House of the Spirits*.

ANSWER: Isabel **Allende**

[10] Both Mistral and Allende are writers from this South American nation.

ANSWER: **Chile** (or the Republic of **Chile**) <Suh>

13. In a novel, Parmenides' ["par-meh-nuh-dees"] idea of this concept is refuted by discussing burdens that are "an image of life's most intense fulfillment." For 10 points each:

[10] Name this philosophical concept that titles a novel contrasting it with the dramatic implications of Nietzsche's eternal recurrence and Beethoven's phrase "*Es muss sein!*"

ANSWER: the **lightness** of being (accept *The Unbearable Lightness of Being*)

[10] Tomas, who exemplifies the lightness of being, has an affair with the artist Sabina in *The Unbearable Lightness of Being*, a novel by this Czech author.

ANSWER: Milan **Kundera**

[10] This object is "a motif in the musical composition that was Sabina's life," as it functions as "a monument to time past" when she meets Tomas in Zurich as well as "a memento of Sabina's father and of her grandfather."

ANSWER: Sabina's **bowler hat** (prompt on partial answer) <Yue>

14. A character in this novel repeatedly notes that he "believe[s] in being broad-minded and liberal" but dismisses the concerns of strikers as "all lies and fake figures." For 10 points each:

[10] Name this novel centering on a resident of Zenith who becomes Vice President of the Booster's club and refuses to join the "Good Citizens' League" after befriending Seneca Doane.

ANSWER: ***Babbitt***

[10] *Babbitt* is a novel by this American author of satires like *Main Street*, *Elmer Gantry*, and *It Can't Happen Here*.

ANSWER: Sinclair **Lewis**

[10] This other satirical American novel critiqued 1930s Hollywood through the eyes of the artist Tod Hackett, who plans to paint *The Burning of Los Angeles*.

ANSWER: *The Day of the Locust* <Yue>

15. This term was first used by Henry of Huntingdon in his *Historia Anglorum*. For 10 points each:

[10] Name this semi-fluid collection of seven Anglo-Saxon kingdoms that ruled Britain for nearly five centuries.

ANSWER: **Heptarchy**

[10] England rose out of this kingdom that was ruled by men like Alfred the Great. Alfred's grandson, Æthelstan, is considered to be the first King of England.

ANSWER: Kingdom of **Wessex**

[10] The Heptarchy is considered to have started from the end of this empire's rule in Britain. The *Rescript of Honorius* granted self-government to Britain because this empire was busy fighting the Visigoths at the time.

ANSWER: **Roman** Empire <Suh>

16. Galaxy clusters are among the largest stable and gravitationally bound structures in the universe. For 10 points each:

[10] Name this galaxy group to which the Milky Way belongs. The center of this group is located between the Milky Way and the largest member of the group, Andromeda.

ANSWER: **local** group

[10] The mass of galactic clusters can be determined by measuring the cluster's thermal bremsstrahlung ["**BREM-strah-lung**"] in this high energy part of the spectrum. The Chandra Observatory takes images in this part of the spectrum—as do dentists.

ANSWER: **X-ray**

[10] X-ray mass determination assumes that the clusters can be described this term. Systems described by this word are in gravitational equilibrium and have potential energy equal to twice the negative of internal kinetic energy.

ANSWER: **virialized** (accept word forms) <K. Li>

17. For 10 points each, answer some questions about some 20th century oratorios:

[10] An Arthur Honegger oratorio commissioned by Ida Rubinstein centers on this figure, played by Marion Cotillard in some recent productions. This character was the subject of a Tchaikovsky opera written two years after *Eugene Onegin*.

ANSWER: **Joan of Arc** (accept *Jeanne d'Arc au Bûcher*; prompt on Joan or *Maid of Orleans*)

[10] This composer depicted the “Dream” of title Roman Catholic everyman, Gerontius, in his most famous oratorio. Another of his choral works, his *Coronation Ode*, ends with a setting of “Land of Hope and Glory.”

ANSWER: Sir Edward **Elgar**

[10] The oratorios *Belshazzar's Feast*, *A Child of Our Time*, and *The Dream of Gerontius* are written by William Walton, Michael Tippett, and Edward Elgar, all knighted composers from this country.

ANSWER: Great **Britain** (accept United Kingdom or **England**) <Yue>

18. A prime minister of this empire, Gajah Mada, vowed to not eat any food with spices until he conquered all the islands surrounding him. For 10 points each:

[10] Name this empire based on Java that reached the height of its power during the reign of Hayam Wuruk.

ANSWER: **Majapahit** Empire

[10] The Majapahit Empire was started by Raden Wijaya, who repelled the invading forces of this emperor. This man's invasion force to Japan was destroyed by two typhoons now known as *kamikaze*.

ANSWER: **Kublai** Khan

[10] Majapahit is the last major empire before the introduction of this religion to the Indonesian archipelago. To this day, this religion is the majority religion in Indonesia.

ANSWER: **Islam** <Suh>

19. For 10 points each, identify these real-life locations that inspired the settings of various Disney movies.

[10] Name this waterfall in Venezuela, the highest uninterrupted waterfall in the world. Paradise Falls from *Up* was inspired from this waterfall.

ANSWER: **Angel Falls** (or **Salto Angel**)

[10] The Cadillac Ranch in this city inspired Cadillac Range in the *Cars* franchise. This city is known as the “Helium Capital of the World,” and its other nicknames include “Bomb City” and the “Yellow Rose of Texas.”

ANSWER: **Amarillo**, Texas

[10] The castle in *Tangled* was inspired by Mont-Saint-Michel [“*mon sen-mee-she*’], an island commune in Normandy of this country.

ANSWER: **France** <Suh>

20. This goddess arrived to Rome in the form of a large black stone, and Claudia Quinta was selected to welcome the goddess into the city. For 10 points each:

[10] Name this Phrygian “mother” goddess who was often conflated with Rhea. She was often accompanied by her castrated consort Attis.

ANSWER: **Cybele** [“*SEE-buh-lee*”]

[10] Claudia Quinta brought Cybele to Rome in the hopes of receiving the goddess' help in defeating this rival city in North Africa. Hannibal Barca of this city faithfully worshiped Melqart.

ANSWER: **Carthage**

[10] Cybele came to Rome in the form of a rock of this color. Aegeus, the father of Theseus, committed suicide by jumping into the sea after he saw sails of this color coming into Athens.

ANSWER: **black** <Suh>

21. The journalist Herb Caen first popularized the name of this subculture. For 10 points each:

[10] Name this counterculture movement of the 1960s, the members of which congregated en masse at Woodstock in 1969.

ANSWER: **hippies**

[10] The hippie counterculture is considered to have started in this district of San Francisco, named after the intersection of the two namesake streets.

ANSWER: **Haight**-Ashbury (or The **Haight**; accept The Upper **Haight**)

[10] Many hippies visited San Francisco during the summer of 1967, a phenomenon which has since been dubbed the “Summer of *this concept*.”

ANSWER: **love** (accept Summer of **Love**) <Suh>