

**Eisenhower Memorial Tournament 2017: Dunning-Kruger? I Hardly Know 'Er!**

**Questions by Vasa Clarke, Ryan Humphrey, Alex Damisch, Jacob O'Rourke, Gabe Guedes, Charles Hang, and Alex Dzurick**

**Finals 2: Tossups**

1. **This protein stains blue-green in Masson's trichrome stain, and this protein appears red in the presence of both Verhoeff's stain and a Van Gieson counterstain. Defects in the PLOD1 gene result in the kyphoscoliosis version of a condition in which this protein's assembly is disrupted. The enzyme lysyl oxidase catalyzes the formation of aldehydes from lysines in the final step of this protein's synthesis. (\*)** Glycine residues compose roughly one-third of this protein, which alongside fibronectin is a common ligand for integrin proteins. Enzymes in the synthesis of this compound require a Vitamin C cofactor, and this protein typically assumes a compact, triple helical structure. For 10 points, name this fibrous protein that composes most of the ECM and many connective tissues.

ANSWER: collagen [the disease referenced in line two is a type of Ehlers-Danlos Syndrome] <RH, Biology>

2. **This location's administrators designated a building labelled Block 11 specifically for execution and torture. Report W documented the activities of this place. In 1982, John Paul II canonized Maximilian Kolbe for his actions at this location. Eighty-six residents of this location had their (\*)** bodies harvested for use in a skeleton collection. Smuggled explosives were used by sonderkommandos to launch a rebellion at this location which succeeded in killing several guards and blowing up one of the crematoria. Rudolf Höss was executed for his leadership role at this place, which displayed the slogan "arbeit macht frei" at its gates. For 10 points, name this largest concentration camp operated by Nazi Germany in occupied Polish territory.

ANSWER: Auschwitz-Birkenau <VC, European History>

3. **One track on this album is a disco-inspired up-tempo track on which its artist sings "I ain't talking money, I'm just physically obsessed" and is titled "Greedy." This album's artist sang a duet version of its lead track on *The Voice* season 10 finale with Christina Aguilera. This album's original title was *Moonlight*, which is also the name of this album's first song. The music video for the third single off of this album is filmed in locations such as a (\*)** gym and a spin class, and features Nicki Minaj; that song is "Side to Side." For 10 points, name this third album by Ariana Grande, whose lead track says that "something 'bout you" makes her feel like the title kind of person.

ANSWER: *Dangerous Woman* <AWD, Trash>

4. **A population of high-mass x-ray binaries exist in a stellar "bridge" named for these astronomical objects, which also include the stars R85 and S-Doradus. In one of these objects, a blue supergiant named Sanduleak became the SN-1987A supernova. Both ram-pressure stripping and tidal forces have been suggested as causes for the formation of a high-velocity (\*)** "stream" of gas extending from these objects to the Milky Way. These objects, which contain the Tarantula nebula, were the source of the Cepheid variables used by Henrietta Leavitt in her period-luminosity studies. These objects both orbit the Milky Way and are only visible on Earth from the Southern Hemisphere. For 10 points, name this pair of dwarf galaxies named for a Portuguese explorer.

ANSWER: Magellanic clouds [prompt on "(dwarf) galaxies"; accept Large and Small Magellanic clouds or Magellanic Bridge/Stream] <RH, Other Science>

5. **Fossils discovered in this country were documented as the brand-new hominid species *Homo naledi* in 2015. This country's national tree, the real yellowwood, is officially protected by this country's government, which has established the Namaqua National Park. A cable car takes tourists to from this country's second-largest city to the top of this country's (\*)** Table Mountain. This country's universities have been recently rocked by students organizing under the #FeesMustFall protest against a controversial president who believes that taking a shower can reduce the risk of contracting HIV. For 10 points, name this country where Jacob Zuma has been president since 2009 and where the cities of Pretoria and Johannesburg are located.

ANSWER: South Africa [or Republic of South Africa; or Republiek van Suid-Afrika; or Mzansi] <VC, Geography/Current Events>

6. **During this decade, the artificial Glory River was created during an accelerated campaign to drain some marshes. A prince died in battle during this decade while personally defending the Dasman Palace. Congress heard testimony in this decade alleging that a country's military was killing premature babies, according to a**

**teenager named (\*) Nayirah.** UN Security Council Resolution 660 was passed to condemn an invasion which took place in this decade. Norman Schwartzkopf led a military operation during this decade against an opponent who suffered heavy casualties on the Highway of Death. For 10 points, name this decade in which the United States commenced Operation Desert Storm in order to defend Kuwait from Saddam Hussein.

ANSWER: 1990s <VC, World History>

**7. A character created by this author has wild hair because his sister was crying so hard when she was cutting it that she couldn't see properly. In that novel by this author, Reverend Colley blesses passengers on a ship while naked before drinking himself to death, leading Edmund Talbot to read his journal while en route to Australia. Another character created by this author repeats the line "That was a dirty trick" after a boy breaks another character's (\*) glasses by smacking him on the head. In that novel by this author, Jack cries out "I'm chief" after a conch shatters when a large rock strikes Piggy and hurtles him to his death. For 10 points, name this British author of *Rites of Passage* who wrote about a group of boys being stranded on an island in *Lord of the Flies*.**

ANSWER: William Golding <GG, World/Other Lit>

**8. This composer's travels to Switzerland and Italy inspired his piano pieces *Album of a Traveler* and *Years of Pilgrimage*, whose title refers to Goethe's ["GER-tuhs"] *Wilhelm Meister's Apprenticeship*. A poem by Alphonse-Marie de Lamartine inspired a work by this composer that portrayed a subject by varying a descending half-step, ascending perfect fourth motive in his symphonic poem *Les (\*) Préludes* ["LAY PRAY-loods"]. This composer wrote a highly chromatic work that barely uses traditional harmony in his *Bagatelle Without Tonality*, which may have been intended to replace this composer's fourth and unfinished *Mephisto Waltz*. For 10 points, name this virtuoso pianist and composer of *Transcendental Etudes* and 19 *Hungarian Rhapsodies*.**

ANSWER: Franz Liszt <AWD, Music>

**9. In quantum position space, this quantity's operator is given by the Laplacian of the wavefunction times negative h-bar squared over 2 times the mass. Relativistically, this quantity may be calculated as the Lorentz gamma factor minus one times the mass and the speed of light squared. The average amount of this quantity per degree of freedom for a molecule in translational motion is found using the (\*) equipartition theorem. For an ideal gas, it equals three-halves times Boltzmann's constant times temperature. Classically, work is equal to the change in this quantity, from which a term symbolized V is subtracted in the Lagrangian. For 10 points, name this type of energy, calculated as one-half mass times velocity squared, and possessed by objects in motion.**

ANSWER: kinetic energy [prompt on "energy"] <RH, Physics>

**10. A painting by this artist depicts a man who appears to be painting a woman out of thin air. This painter of multiple works called *The Great War* also depicted a nude woman whose upper half is the same color as the sky standing next to the leaning tower of Pisa and a tuba that is on fire in *The Enchanted Realm*. Wood, fire, and a forest in window-like squares appear behind a cannon in this artist's (\*) *On the Threshold of Liberty*.**

Another painter by this artist shows a figure in a black suit and tie kissing a figure in red called *Lovers*, although both of their faces are obscured. A painting by this artist has its subject wearing a red tie and standing in front of a brick wall, with a face obscured by an apple. For 10 points, name this Belgian surrealist who painted *Son of Man*.

ANSWER: René Magritte <AWD, Painting>

11. In one of this author's novels, a character first encounters *Macbeth* when an installation artist named Anna K. who broadcasts her life to millions reads one of its soliloquies. That novel by this author ends with a character looking at his blank watch before declaring that it is "zero hour" and "time to go" and is partially titled for a girl who is first seen as an eight-year-old on a child pornography site. In another novel by this author, former televangelist (\*) Serena Joy gets the protagonist to have sex with her husband's driver Nick to impregnate her. In that novel by this author, the Commander plays Scrabble with the protagonist, who occupies the title role in his household. For 10 points, name this Canadian author who described Offred in the Republic of Gilead in *The Handmaid's Tale*.

ANSWER: Margaret Atwood <GG, World/Other Literature>

12. Allegedly, this man might have been the bastard child of Lucy Montagu and Prince Frederick Lewis. This leader succeeded to the office of Chancellor of the Exchequer upon the sudden death of Charles Townshend. This man served as Secretary of State for the Home Department in a coalition ministry with Charles (\*) Fox. After Robert Walpole, this leader was the first forced out of office for failing a vote of no confidence. Civil unrest during this man's tenure included the anti-Catholic Gordon Riots and insurrection in the colonies following the Intolerable Acts. For 10 points, name this Prime Minister whose government managed the response to the American Revolution.

ANSWER: Frederick North, Lord North [or Frederick North, 2nd Earl of Guilford]<VC, Misc/Other History>

13. An ion of this functional group nucleophilically displaces a chloride ion in the first step of the Banert cascade. In a classic synthesis, sulfinic acid and one of these functional groups are produced from a diazonium salt and a sulfonamide. Alkyl versions of this functional group are produced from aliphatic alcohols in a variant of the Mitsunobu reaction. Tri-phenyl-phosphine may be used as the reducing agent to convert these functional groups into amines. Acyl versions of this functional group are heated to yield an (\*) isocyanate in the Curtius rearrangement. These compounds are also joined with alkynes via cycloaddition in a click chemistry reaction named for Huisgen. The simplest example of these compounds is the dominant propellant in airbags. For ten points, name this functional group containing three nitrogen atoms linked by two double bonds.

ANSWER: azides (the reaction in the second line is the Dutt-Wormall reaction) <RH, Chemistry>

14. The primary prophet of this sect once took his revenge on the village of Hittin where he is now said to be buried. Adherents of this religion regard the white shrine and theological school of Khalwat al-Bayada as holy. Members of this religion are the most frequent to make pilgrimages to Nabi Shu'ayb, where this religion maintains the tomb of Jethro. This religion's founder, (\*) Hamza ibn Ali, proclaimed that the Fatimid Caliph al-Hakim was a prophet from God. Virtues such as the universal mind, the universal soul, and the word are exemplified by a symbol upheld by this faith, a five-colored and five-pointed star. For 10 points, name this minority religion in the Middle East of Ismaili origin, whose members are most common in Lebanon and Israel.

ANSWER: Druze <VC, Religion>

15. This thing was created after Poseidon had sex with a shapeshifted nymph named Theophane. The guardian of this object was created by blood that dripped into the Caucasian mountains. Because the children of Athamas and Nephele were threatened, they used an (\*) animal which possessed this object in order to escape. The story of this object's acquisition includes the death of the harpies, which were killed in order to rescue the seer Phineus. This object's source was honored after death as the constellation Aries. Pelias ordered a young man with one sandal to retrieve this object from Aetes, who ruled the kingdom of Colchis with his daughter, Medea. For 10 points, name this valuable item that was the objective of a quest by Jason and the Argonauts.

ANSWER: Golden Fleece <VC, Myth>

16. This thinker stated that the interest of a part and of a whole cannot conflict as part of some precepts which were first cited by Themistius. In his most famous text, this author admonished the reader not to ask why things like bitter cucumbers are made in the world. This thinker made frequent use of slogans such as “providence or atoms?” and “erase (\*) impressions.” This philosopher began a lengthy text by thanking his teacher Rusticus, who had provided this thinker with the works of the earlier thinker Epictetus. This thinker took some time in Carnuntum to write down his thoughts during a break from a military campaign. For 10 points, name this author of the *Meditations*, a Stoic philosopher who also happened to be the last of the Five Good Emperors.  
ANSWER: Marcus Aurelius <VC, Philosophy>

17. This character’s first stage direction describes her as having “an endless capacity for dissembling.” This character cries as she tells a man she “cannot dream but I wake and walk about the house as though I’d find you comin’ through some door.” This girl threatens to “come to you in the black of some terrible night” after she smashes another girl across the face for claiming that she drank (\*) blood. While being interrogated by a priest, a woman cannot bring herself to admit that she dismissed this character as a servant because she had sex with her husband. By pretending to be affected by a cold wind and to see a yellow bird, this character reduces Mary Warren to tears and gets her to accuse John Proctor of being “the Devil’s man.” For 10 points, name this antagonist of *The Crucible*.  
ANSWER: Abigail Williams [accept either] <GG, American Literature>

18. This event was managed by Stanford Technology Trading Group International, a shell company run by Richard Secord and Albert Hakim. The instigator of this event had earlier supported one of its participants through the covertly distributed *Freedom Fighter’s Manual*. This event was investigated by a commission led by John (\*) Tower, who was concerned with this event’s violations of the Boland Amendment. Fawn Hall was ordered to destroy documents during this event, and later testified about this event as a witness against figures such as John Poindexter and her supervisor, Oliver North. For 10 points, name this Reagan administration scandal in which illegal arms sales to a Middle Eastern country were used to fund insurgency against the Sandinistas in Nicaragua.  
ANSWER: Iran-Contra affair [prompt on partial answer] <VC, American History>

19. A character created by this author befriends a woman with a deformed arm who is taken to useless treatments by her father to cover up visits to his mistress. This author created a man who accidentally grabs the index card of an unknown woman while collecting clippings about famous people, leading to an obsessive search that attracts the interest of the Registrar. Along with a novel that features the ghost of (\*) Fernando Pessoa, this author wrote a book in which a woman accompanied by an animal nicknamed the “dog of tears” sees that statues of saints in a church have been painted over in reference to the title “white sickness.” In that novel by this author, the doctor’s wife is the only one not afflicted by the title condition. For 10 points, name this Portuguese author of *All the Names* and *Blindness*.  
ANSWER: José Saramago <GG, European Literature>

20. Several characters in this opera, upon being questioned about an expedition to death and glory, declare, “that is not a pleasant way of putting it!” Those characters in this opera lament their choice of profession because the “capacity for innocent enjoyment” of most criminals is “just the same as any honest man’s.” A “fly’s foot-fall would be distinctly heard” in this opera’s (\*) loudest musical number, which takes place as some men advance “with cat-like tread.” The target of that burglary in this opera falsely claimed to be an orphan after delivering a rapid-fire song about how he is the very model of a modern Major-General. For 10 points, name this comic opera about some seafaring lawbreakers by Gilbert and Sullivan.  
ANSWER: *The Pirates of Penzance*; or, *The Slave of Duty* <VC, Other Art>

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### Finals 2: Bonuses

1. The Aetherius Society believed that the Star of Bethlehem was one of these things, because of course they did.

For 10 points each:

[10] Name these vehicles which probably don't exist, but which are nonetheless worshipped by groups like the Raëlian movement.

ANSWER: UFOs [or unidentified flying objects; or answers like "alien spaceships"]

[10] In the Nation of Islam, this possible UFO is identified with the wheel in the Book of Ezekiel. Elijah Muhammad believed that this thing created mountains by dropping bombs on the earth.

ANSWER: Mother Plane

[10] This UFO cult believed that an alien spaceship following Comet Hale-Bopp would take them away, so a lot of people from this group killed themselves in 1997.

ANSWER: Heaven's Gate <VC, Religion>

2. Answer the following about the mercenary history of the Reislauer. For 10 points each:

[10] The Reislauer were mercenaries from this European country, who had a rivalry with landsknecht units. This country's cantons supply the guards who protect the Pope.

ANSWER: Switzerland [or Confédération Suisse; or Confederazione Elvetica; or Confederazione Svizzera; or Helvetic Confederation; or Swiss Confederation]

[10] The defection of 8,000 Swiss mercenaries doomed the losing commander at this battle. This battle ended the Four Years War, and resulted in Francis I's capture by Charles V.

ANSWER: Battle of Pavia

[10] The only remnant of Switzerland's mercenary history is the Swiss Guard, who guards the Pope. This "Warrior Pope" founded the Papal Swiss Guard.

ANSWER: Julius II [or Giuliano della Rovere; prompt on "Julius"] <JO, European History>

3. At the end of Elizabeth Bishop's villanelle "One Art," the line "though it may look like...like disaster" is interrupted by a parenthetical commanding the listener to perform this action. For 10 points each:

[10] Name this action. In another poem, a speaker who likes "a pipe for a Christmas present" describes coming "to the Y, / the Harlem Branch Y, where I take the elevator up to my room" before performing this action.

ANSWER: write

[10] The aforementioned "Theme for English B" was written by this poet who described a man "droning a drowsy syncopated tune" in "The Weary Blues."

ANSWER: Langston Hughes

[10] In "The Negro Speaks of Rivers," after the speaker claims to have known rivers "older than the flow of human blood" he claims that *this part of him* "has grown deep like the rivers," which is repeated again in the final line.

ANSWER: his soul <GG, American Literature>

4. The presence of bicoid mRNA increases the expression levels of hunchback protein on one side of this axis in the embryos of a certain species. For 10 points each,

[10] Name this developmental axis that contains low levels of nanos and caudal protein expression on the opposite end of the gradients of bicoid and hunchback protein.

ANSWER: anterior-posterior axis [or A-P axis]

[10] That patterning of the anterior-posterior axis occurs in this common insect model organism that was famously observed in Thomas Hunt Morgan's studies of genetic linkage.

ANSWER: drosophila melanogaster [or just "fruit fly", prompt on "drosophila"]

[10] Another set of genes responsible for the patterning of drosophila embryos are this set of genes activated by gap and pair-rule genes. These genes are uniquely located along chromosomes in parallel to their expression patterns, and Antennapedia is one example of them.

ANSWER: HOX genes <RH, Biology>

5. This work opens with a harp chords that imitate the bard Lumír's singing. For 10 points each:

[10] *Tábor* is the fifth movement in this collection of six symphonic poems, whose second movement opens with a meandering flute solo that depicts bubbling water.

ANSWER: Má vlast [accept My Country]

[10] That second movement, *The Moldau*, depicts the Vltava, a river in this country. Formerly known as Bohemia, this country was the home to composers like Antonín Dvořák ["duh-VORE-zhach"] and Bedřich Smetana.

ANSWER: Czech Republic

[10] Dvořák wrote these sixteen pieces for piano four hands or orchestra, inspired by a similar series by Johannes Brahms. These pieces' namesake styles include a dumka and a mazurka.

ANSWER: Slavonic Dances <AWD, Music>

6. A military disaster in this region was often called the Clades Variana because of Varus, who led three legions to destruction here. For 10 points each:

[10] Give this Roman name for the region inhabited by tribes such as the Marcomanni, Suebi, and Alemanni.

ANSWER: Germania [or Magna Germania]

[10] A major source for ancient Germanic culture comes from the *Germania* by this Roman author of the *Annals* and the *Histories*. This historian may have spelled the word "Christian" with an e in his account of the crucifixion.

ANSWER: Publius Cornelius Tacitus [or Gaius Cornelius Tacitus]

[10] Tacitus' *Germania* may intentionally emphasize the freedom of the Germans in contrast to the dictatorial rule of this Roman emperor who was the last ruler of the Flavian dynasty. This emperor was succeeded by Nerva.

ANSWER: Domitian [or Titus Flavius Caesar Domitianus Augustus] <CH, Misc/Other History>

7. The Mehler kernel is the propagator for the Hamiltonian of the quantum version of these systems. For 10 points each,

[10] Name these systems whose displacement is proportional to the restoring force, according to Hooke's law.

ANSWER: simple harmonic oscillator [or SHO or SHM or simple harmonic motion; prompt on "spring" or "pendulum"]

[10] This approximation is used to analyze a pendulum as a simple harmonic oscillator. This approximation replaces the basic trig functions with truncations of their Taylor series' equal to theta and one minus theta-square over two.

ANSWER: small-angle approximation

[10] Simple harmonic oscillators can be considered critically damped when their Q-factors equal to this numerical value. Q-factors above this value are said to be underdamped, and those above this value are overdamped.

ANSWER: one-half [or 0.5] <RH, Physics>

8. Large landowners divided this region up into estancias, where the flightless rhea can be found in its native habitat. For 10 points each:

[10] Name these grassy plains of South America that stretch across southern Brazil and Northern Argentina.

ANSWER: pampas

[10] The pampas were the primary workplace of these "cowboys" who used the bolas as a throwing weapon.

ANSWER: gauchos

[10] North and inland of the pampas is this arid region. The possibility of oil being found here led to a 20th-century war between Bolivia and Paraguay over ownership of this region.

ANSWER: Gran Chaco <VC, Geography/Current Events>

9. Edward Sutherland and Donald Cressey published an authoritative text on this discipline in 1934. For 10 points each:

[10] Name this academic discipline that analyzes topics like robbery and theft.

ANSWER: criminology [prompt on "penology"]

[10] This Italian philosopher is widely regarded as one of the founders of criminology as an academic discipline for his discussion of topics like torture in the work, *On Crimes and Punishments*.

ANSWER: Cesare Beccaria

[10] This other American sociologist and author of *Social Theory and Social Structure* developed the "strain theory" of criminology. He also coined the term "self-fulfilling prophecy".

ANSWER: Robert Merton <RH, Social Science>

10. This play begins with two characters placing bets at a cockfight before transitioning to two sisters and their mother holding handkerchiefs and waiting for a ship to arrive. For 10 points each:

[10] Name this play in which Juan Julian arrives in Ybor City to work as a *lector* at a cigar factory. Toward the end of this play, Cheche shoots Juan Julian after menacingly grabbing Marela at the end of the previous scene.

ANSWER: **Anna in the Tropics**

[10] *Anna in the Tropics* won Nilo Cruz one of these awards in the category of drama, named for a publisher of the *New York World* who competed with William Randolph Hearst.

ANSWER: **Pulitzer** Prize

[10] The Pulitzer committee also awarded this Neil Simon play in which Eddie leaves his sons Jay and Arty with their grandmother and their aunt Bella while he travels as a salesman to pay off medical bills after his wife's death.

ANSWER: **Lost in Yonkers** <GG, World/Other Literature>

11. This animal spends his time spreading slander between an eagle and the dragon Nidhogg. For 10 points each:

[10] Name this magical squirrel who lives in the world tree Yggdrasil.

ANSWER: **Ratatoskr**

[10] In this country, woodland spirits called kodama are sometimes said to live in ordinary trees. This country is also home to bewitching monsters known as yokai.

ANSWER: **Japan** [or **Nihon**; or **Nippon**]

[10] This creature from Japanese folklore doesn't live in trees. Instead, it hangs out in shallow bodies of water, eating cucumbers and occasionally trying to drown people.

ANSWER: **kappa** <VC, Myth>

12. One work by this shows a man raising his hands above his head while playing the saxophone, and another depicts the enduring nature of African-American song and dance. For 10 points each,

[10] Name this artist of *Song of the Towers* and *An Idyll of the Deep South*, two works from his *Aspects of Negro Life* series.

ANSWER: Aaron **Douglas**

[10] This other American artist touched on similar themes from African American culture in his massive, 60-panel *Migration* series.

ANSWER: Jacob **Lawrence**

[10] Aaron Douglas and Jacob Lawrence were both members of an artistic "Renaissance" titled for this New York neighborhood.

ANSWER: **Harlem** [or **Harlem** Renaissance] <RH, Painting>

13. This book includes an aside in which the author considers the adjudication of a case in which a child accidentally killed and maimed two other children with a shotgun. For 10 points each:

[10] Name this book, which describes the author's time on a coffee plantation in Kenya. The last chapters of this book recount the death of Finch Hatton due to the crashing of his Gipsy Moth biplane after takeoff.

ANSWER: **Out of Africa**

[10] *Out of Africa* was written by this Danish writer who wrote about a woman who uses her lottery winnings to make the titular meal in "Babette's Feast."

ANSWER: Isak **Dinesen** [or Karen von **Blixen**-Finecke]

[10] In this story by Dinesen, a Cardinal who was rescued from his cottage by a group of fisherman reveals to a woman that he is actually the Cardinal's valet Kasparson after performing a wedding in a granary.

ANSWER: **"Deluge at Norderney"** <GG, European Literature>

14. For low values of this quantity, the Butler-Volmer equation becomes approximately linear. For ten points each, [10] Name this quantity, which equals the difference between the experimental voltage required for an electrochemical cell and the theoretical voltage required for an electrochemical cell, as calculated from half-cell potentials.

ANSWER: **overpotential** [or **overvoltage**]

[10] On a Tafel plot, overpotential is plotted against the log of this quantity. This quantity is defined as the anode current over the inner surface area of the anode, and it can be found using the Three-Halves Power law sometimes named for Child and Langmuir.

ANSWER: **current density** [accept “**J**”; prompt on “**current**” or “**I**”]

[10] “Bubble” overpotential may result from the evolution of oxygen gas at the anode or cathode during this process for a salt solution. This process for water uses an electric current to produce gaseous hydrogen and oxygen.

ANSWER: **electrolysis** [prompt on hydrolysis] <RH, Chemistry>

15. A group of officers led by Major Kenji Hatanaka attempted to stop the broadcasting of this speech in the Kyujo Incident. For 10 points each:

[10] Name this speech, which advised its listeners to “endure the unendurable.” A follow-up address had to clarify this speech, as it avoided using the word “surrender” and was delivered in a high, classical language.

ANSWER: **Jewel Voice Broadcast** [or **Gyokuon Hoso**; or any answer that mentions the **Surrender of Japan** at the end of World War II; accept, but do NOT reveal, **Hirohito’s Address** following the Hiroshima and Nagasaki bombings]

[10] The Jewel Voice Broadcast was delivered by this Emperor of Japan. He avoided any charges of war crimes, unlike his Prime Minister Hideki Tojo.

ANSWER: **Hirohito** [or Michinomiya **Hirohito**; or the **Showa** Emperor]

[10] Hirohito’s brother, Prince Chichibu, was friends with Mitsugi Nishida, a member of the group of army officers who killed many of Hirohito’s ministers during this 1936 coup attempt.

ANSWER: **February 26th Incident** [or the **2-26 Incident**] <JO, World History>

16. This author’s “Alexander’s Feast” inspired the libretto for Handel’s oratorio of the same name, and he was named England’s first Poet Laureate. For 10 points each:

[10] Name this poet who wrote a poem in decasyllabic quatrains that chronicles various battles from the Second Anglo-Dutch War and is preceded by a letter to his brother-in-law Robert Howard.

ANSWER: John **Dryden**

[10] Dryden’s *Annus Mirabilis* chronicles the Great Fire that broke out in this city in 1666, and it was written while the author sought to escape the Great Plague that afflicted this city the same year.

ANSWER: **London**

[10] This allegorical poem by Dryden begins by describing a “milk-white” creature who “fear’d no danger, for she knew no sin.” Its two title animals represent the Catholic Church and the Anglican Church.

ANSWER: *The **Hind and the Panther**: A Poem, in Three Parts* <GG, British Literature>

17. The work in which this character appears was first premiered at the Met in December 1910, and she was played at that performance by the Czech soprano Emmy Destinn. For 10 points each,

[10] Name this saloon-owner who is courted by the sheriff Rance and the miner Sonora before ultimately falling for the bandit Dick Johnson. The opera in which she appears was inspired by its composer’s viewing a similarly-titled play by David Belasco.

ANSWER: **Minnie** [accept “The **Girl of the Golden West**” or “**La fanciulla del West**”; prompt on “la fanciulla”]

[10] Minnie appears in this Italian composer’s *The Girl of the Golden West*. Despite the success of that work’s New York premiere, he is probably still better-known for works like *La Boheme* and *Madame Butterfly*.

ANSWER: Giacomo **Puccini**

[10] In Puccini’s *Turandot*, prince Calaf sings this aria in Act 3, by far the opera’s most well-known, which states that “nobody shall sleep” until he discovers the title character’s name.

ANSWER: “**Nessun dorma**” <RH, Other Art>



18. This character starts drinking beer in a pun-based image after running out of children to murder. For 10 points each:

[10] Identify this character who, while flying through outer space, declares, “this is where the fun begins!”

ANSWER: Anakin Skywalker [prompt on “Skywalker”; do not accept “Darth Vader”]

[10] Chancellor Palpatine asks Anakin if he has heard the “tragedy” of this “Dark Lord of the Sith” who had the ability to create life but unfortunately was unable to save himself from death because Palpatine killed this man.

ANSWER: Darth Plagueis the Wise

[10] Famously, Anakin really hates this substance, which was unfortunately common on his home planet of Tatooine.

ANSWER: sand <VC, Trash>

19. This organization was restarted after the worker Mary Phagan was allegedly murdered by the Jewish factory owner Leo Frank. For 10 points each:

[10] Name this organization, which was glamorized in D.W. Griffith’s film *Birth of a Nation*. This white supremacist organization includes ranks such as Grand Cyclopes, and its members wear white hoods.

ANSWER: Ku Klux Klan [or KKK; prompt on “the Klan”]

[10] The murder conviction of this Grand Dragon of the Indiana chapter of the Ku Klux Klan led to the nationwide decline of the Klan. He claimed that Madge Oberholtzer committed suicide, rather than succumbing to a staph infection.

ANSWER: D.C. Stephenson [or David Curtiss “Steve” Stephenson]

[10] This president screened *Birth of a Nation* at the White House, making it the first American film to be screened at the White House.

ANSWER: Woodrow Wilson [or Thomas Woodrow Wilson] <JO, American History>

20. Obstructed wind flow results in the “obstacle” variety of these entities, and a lack of vegetation results in their “parabolic” variety. For 10 points each,

[10] Name these topological entities that shaped by processes like surface creep and suspension and are frequently found in massive size in deserts like the Sahara.

ANSWER: sand dunes

[10] Dunes may also be formed when sand undergoes this other transport process. This process describes the general bouncing movement of small particles, such as sand, as they are transported by a fluid, like the wind.

ANSWER: saltation

[10] This equation relates the amount of sand moved by saltation to the wind speed. It states that the mass transport of sand is proportional to friction velocity cubed, and it also includes terms for reference grain size and air density.

ANSWER: Bagnold formula [or Bagnold’s equation] <RH, Other Science>