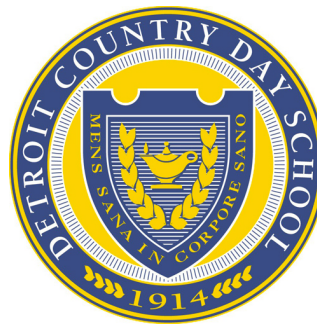


## Detroit Country Day Academic Regular Tournament II

### Packet 5

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Special thanks to Neil Gurram

1. *Description Acceptable.* **The possibly mythical Peg Leg Joe assisted these people. These people formed a colorfully-named branch of the Seminoles. A Pennsylvania law protecting these people was the subject of *Prigg v. Pennsylvania*. A 1793 law enforcing the arrest of these people was revised as part of the Compromise of (\*) 1850. Quilt codes were often created by “stationmasters” and “conductors” to aid these people. Many of these people followed the “drinking gourd,” which often guided them to Canada. For 10 points, name these people who liberated themselves from forced servitude, often through the Underground Railroad.**

ANSWER: **escaped slaves** [or **fugitive slaves** or **former slaves**; accept **escaping slave** or **passengers** on the **Underground Railroad**; prompt on **Black Seminoles** or **Black** people or **slaves** alone with “who had done what action?”]  
<US History, Gayden> [Ed.]

Answer the following about literary depictions of industrial Chicago. For 10 points each:

[H] This character grows to detest the monotony of work in Chicago after arriving on a train from her hometown of Columbia City. This character is encouraged by her lover Charles Drouet to pursue her acting career instead.

ANSWER: Sister **Carrie** [or **Caroline Meeber**; accept any underlined portion]

[E] This muckraking novel by Upton Sinclair exposed the horrible conditions in Chicago’s meatpacking industry.

ANSWER: ***The Jungle***

[M] This character grows up in industrial Chicago, where he works for the paraplegic Einhorn. This character declares, “I am an American, Chicago born” at the beginning of a Saul Bellow novel titled for his *Adventures*.

ANSWER: **Augie March** [accept either underlined portion]

<US Literature, Gayden> [Ed.]

2. **Though it’s not hydrogen, the spectral lines of this compound are used to detect molecular clouds. This compound has the highest crystal-field splitting parameter out of all common ligands [LIG-ends]. This compound reduces iron oxide to elemental iron in blast furnaces, and four molecules of it bind to nickel during the (\*) Mond process. This compound binds to hemoglobin much more strongly than oxygen, explaining its toxicity. Incomplete combustion produces this diatomic [dye-uh-TAH-mick] gas that is common in car exhaust. For 10 points, name this gas made of one carbon atom and one oxygen atom.**

ANSWER: **carbon monoxide** [or **CO**]

<Chemistry, Yin> [Ed.]

This person urged women to steer clear of extremism and “man hating” in *The Second Stage*. For 10 points each:  
[H] Name this co-founder and first elected president of the National Organization for Women.

ANSWER: Betty **Friedan**

[E] Friedan discussed the “Problem That Has No Name” in *The Feminine Mystique*, which is credited with starting the second wave of this movement in the United States.

ANSWER: **feminism** [accept second-wave **feminism**]

[M] Friedan claimed to have been inspired by this seminal work, which defines one group as the “default” and another as the “Other.”

ANSWER: *The **Second Sex***

<Philosophy, Peela> [Ed. Gayden]

3. **A song in this style begins with the lyrics “I hate to see that evenin’ sun go down” and was arranged by William Grant Still for concert band. The lowered third, fifth, and seventh are called this style’s namesake notes and give its songs tonal ambiguity between major and minor. Bessie Smith often sang a standard in this style by W. C. Handy named for (\*) St. Louis, which uses this style’s “12-bar” progression. Robert Johnson, who supposedly sold his soul to the devil in exchange for his skill on the guitar, played a type of this style that originated in the Mississippi delta. For 10 points, name this melancholy style of music paired with rhythm in R&B.**

ANSWER: **blues** [accept “Saint Louis **Blues**”; accept delta **blues**; accept rhythm and **blues**; prompt on **R&B**]

<Misc. Music, Bowman> [Ed.]

The Dutchbat battalion failed to prevent this event. For 10 points each:

[H] Name this event where Ratko Mladić’s Scorpions battalion massacred thousands of civilians.

ANSWER: **Srebrenica** massacre [or **Srebrenica** Genocide or Masakr u **Srebrenici**]

[M] The Srebrenica massacre was committed during this 1992 to 1995 conflict which was ended by the Dayton Accords.

ANSWER: **Bosnian War** [prompt on **Yugoslav Wars**]

[E] Ratko Mladić and other war criminals in the Yugoslav Wars were prosecuted by the International Criminal Tribunal of the Former Yugoslavia, a branch of this wider organization. The member states of this organization’s General Assembly meet at its headquarters in New York City.

ANSWER: **United Nations** [or **UN**]

<European History, Hartung> [Ed.]

4. **The inscription “Abandon all self importance ye who enter here” lies above the door of one of these vehicles. Hothead, the Old Man, and Glasses wait for ten years to board one of these vehicles in a Gao Xingjian [gauw sheen-jeean] play. A boy tells Mr. Bons of encountering fictional characters like Tom Jones after riding one of these vehicles. A painted one of these vehicles named “Further” carried Ken Kesey and his (\*) “Merry Band of Pranksters” where they indulged in LSD and other psychedelics. Students at Walkerville Elementary travel to places like the Cretaceous [krih-TAY-shuss] Period and the circulatory system on one of these vehicles. For 10 points, a *Magic* type of what vehicle is driven by Miss Frizzle?**

ANSWER: **buses** [or omnibuses; accept school **buses** or *The **Celestial Omnibus*** or **Bus** Stop or *The Magic School **Bus***]

<Mixed/Other Literature, Siddiqui> [Ed.]

An F to C cadence is an example of this type of cadence. For 10 points each:

[H] Name this type of cadence, which consists of resolving from the IV [“four”] chord to the I [“one”] chord. It is often called the “Amen” cadence due to its use in church hymns.

ANSWER: **plagal** cadence

[E] A plagal cadence is used at the end of the “Hallelujah” chorus in this oratorio by Georg Frideric Handel.

ANSWER: **Messiah**

[M] Unlike the plagal cadence, the authentic cadence consists of resolving from the chord of this number to the I [“one”] chord. Using parallel examples of intervals of this number is discouraged in counterpoint.

ANSWER: **five** [accept **five** chords; accept parallel **fifths**]

<Classical Music, Chapman> [Ed. Bowman]

5. **Much of the geography of this location is known through the Book of Gates and the Book of Caverns. Residents of this location include a snake named Sesy and a dog-headed ape named Aani. Worthy sojourners through this location are selected to move on to Aaru, or the “Field of Reeds.” Traveling through this location transforms a figure into a younger, (\*) scarab-faced version of himself known as Khepri. The beasts Ammit and Apep live in this location, through which Ra’s barge travels every night. The weighing of the heart occurs in, for 10 points, what location ruled by Osiris and inhabited by the dead?**

ANSWER: **Egyptian underworld** [or the **Egyptian afterlife**; or any of the following: **Duat, Tuat, Tuaut, Akert, Amenthes, Amenti**, or **Neter-khertet**; prompt on **underworld** by asking “of what myth system?”]

<Mythology, Suh> [Ed.]

You’re preparing to go to the End dimension in *Minecraft*. For 10 points each:

[E] Before entering the End, you should use one of these items to set your respawn point. These items, which explode when used in the End, allow players to sleep through the night in the Overworld.

ANSWER: **beds**

[M] Once you reach the End, you can find End Crystals atop 10 pillars made of this block. Nether **[NEH-thur]** portals are constructed out of this block.

ANSWER: **obsidian**

[H] If you’re a professional speedrunner, you might use this block to blow up and kill the Ender Dragon. This block can be crafted from six crying obsidian and three glowstone.

ANSWER: **respawn anchor**

<Popular Culture, Guo> [Ed. Sun]

6. **Many interactions in this process rely on a triple-loop protein domain shaped like a pretzel. This process signals the presence of bacterial endotoxins in an assay derived from horseshoe crabs. This process is prevented by hirudin **[HEER-ood-in]**, a peptide secreted by some annelids. Enzymes involved in this process include Factor VIII **[factor eight]** and the (\*) Christmas factor. This process is suppressed by Vitamin K antagonists like warfarin. In this process, fibrinogen **[fye-BRIN-oh-jin]** is turned into fibrin by the action of thrombin. This process is defective in people with hemophilia. For 10 points, name this process in which platelets **[PLATE-litz]** clump up, preventing blood loss.**

ANSWER: blood **clotting** [or **coagulation**; accept equivalents like **clot formation** or **coagulating**] (The first clue refers to the Kringle domain; the second refers to LAL.)

<Biology, Melkumian> [Ed. Yin]

Edwin Landseer's painting, *Man Proposes, God Disposes*, depicts the fictional fate of this explorer's expedition. For 10 points each:

[H] Name this explorer whose 1845 arctic expedition on the *HMS Erebus* and *HMS Terror* may have turned to cannibalism.

ANSWER: Sir John **Franklin**

[M] Franklin's expedition set out to find this sea route along the northern coast of North America. Martin Frobisher also sought this sea route.

ANSWER: **Northwest Passage**

[E] The Franklin expedition failed during the reign of this British monarch. This Empress of India married Prince Albert.

ANSWER: Queen **Victoria**

<Mixed/Other History, Pavlou> [Ed.]

7. **Most of this country's citizens belong to microsavings groups called Chamas. The second-oldest known hominin, *rrorin*, was found in this country, as was the well-preserved *Homo erectus* dubbed "Turkana Boy." This country's Nilotic peoples include the Kalenjin and Luo. This country's official motto translates to "all pull together" and is (\*) *Harambee*. This country's port of Mombasa lies on the northern end of the Swahili Coast. This country's Kikuyu people live near the second-tallest mountain in Africa, for which it is named. This country's flag depicts two crossed spears on a Maasai shield. For 10 points, name this East African country whose capital is Nairobi.**

ANSWER: Republic of **Kenya**

<Geography, Gayden> [Ed. Ma]

The action is equal to the time integral of this quantity. For 10 points each:

[M] Name this quantity equal to kinetic energy minus potential energy. Like the Hamiltonian, this quantity lends its name to a formulation of classical mechanics.

ANSWER: **Lagrangian** [prompt on L]

[E] Lagrangian mechanics does not require forces to be explicitly defined, as in the formulation of classical mechanics based on this law. This law states that force equals mass times acceleration.

ANSWER: **Newton's second** law

[H] Motion is calculated in Lagrangian mechanics by substituting the Lagrangian into an equation named for this physicist and Lagrange, which can be derived using calculus of variations to minimize the action.

ANSWER: Leonhard **Euler** [accept the **Euler**-Lagrange equations]

<Physics, Wu> [Ed.]

8. **A character created by this author sketches a hermit on Richard Noakes's blueprints of a garden. Another of this author's characters refuses to have his toes licked to test the direction of the wind. A woman is challenged to prove Fermat's Last Theorem in order to distract her from the meaning of the phrase (\*) "carnal embrace" in a play by this author in which Hannah Jarvis searches for Septimus Hodge. The Tragedians perform *The Rape of the Sabine Women* in a play by this author that begins with a coin flipping heads ninety-two times in a row. For 10 points, name this playwright of *Arcadia* and *Rosencrantz and Guildenstern Are Dead*.**

ANSWER: (Sir) Tom **Stoppard** [accept Tomáš **Straussler**]

<British Literature, Melkumian> [Ed.]

Alexander Calder's mobile *Horizontal* stands in front of this building. For 10 points each:

[H] Name this "inside-out" building, which contains an externally-visible escalator and color-coded pipes.

ANSWER: Centre **Pompidou** [accept **Pompidou** Center or Centre Georges **Pompidou**]

[M] This Italian Architect co-designed the Pompidou Center with Richard Rogers. He also designed a London skyscraper resembling a shard of glass.

ANSWER: Renzo **Piano**

[E] Renzo Piano designed the world's longest terminal for one of these places on an artificial island in Japan's Kansai region. Eero Saarinen designed the TWA flight center at one of these places with the three-letter designation JFK.

ANSWER: international **airports** [accept Kansai International **Airport** or John F. Kennedy International **Airport**]  
<Architecture, Gayden> [Ed.]

9. **This leader's finance minister Donald Macdonald introduced price and wage controls through the Anti-Inflation Act. As Justice Minister, this leader defended the legalization of abortion and homosexuality, insisting that there was "no place for the state in the bedrooms of the nation." This leader promoted urban reform and racial equality in order to make his country a (\*) "Just Society." This leader, who enacted the War Measures Act during the October Crisis, instituted French as the official second language of his country. For 10 points, name this Liberal Prime Minister whose son is the current Prime Minister of Canada.**

ANSWER: **Pierre Trudeau** [accept Joseph Philippe Pierre Yves Elliott **Trudeau** or **PET**; do NOT accept or prompt on "Justin Trudeau"]

<World History, Gayden> [Ed.]

At the end of a play titled for these objects, the orator writes phrases like "Angelfood" and "Aadiou Adieu Apa" in capital letters on a chalkboard. 10 points each,

[H] Name these title objects of a "tragic farce" in which the Old Man tells the Old Woman to "Drink your tea, Semiramis" before he jumps out of a window into the ocean after entertaining invisible guests.

ANSWER: **chairs** [accept *The Chairs*]

[E] The author of *The Chairs*, Eugène Ionesco, also wrote a parody of this Shakespeare tragedy where its title character conspires with Banco to assassinate Archduke Duncan.

ANSWER: (*The Tragedy of*) **Macbeth** [accept **Macbett**]

[M] In this other Ionesco play, Berénger shouts, "I'm not capitulating!" as people around him turn into the title green animal.

ANSWER: **Rhinoceros**

<European Literature, Melkumian> [Ed.]

10. **A boy in this film teases his boss for being named after a passing ship while watching him fix a refrigerator. A girl in this movie who wishes only to "listen to [her] block" attempts to drop out of Stanford against the wishes of her father Kevin. "Patience and Faith" is the mantra of a matriarch in this film who passes away during a (\*) blackout. Vanessa's fashion designing aspirations and Usnavi's dream to rebuild his Dominican father's bar are among the *sueñitos* of this film's characters. For 10 points, name this film adaptation of a Lin-Manuel Miranda musical set in a Hispanic Barrio in Washington Heights.**

ANSWER: ***In the Heights***

<Popular Culture, Gayden> [Ed.]

Answer the following about titrations. For 10 points each::

[E] A titration curve plots how pH changes as this quantity increases for the added titrant. When using a graduated cylinder to measure this quantity, its value should be read from the bottom of the meniscus [meh-NISS-kuhss].

ANSWER: **volume** [prompt on V]

[H] At this point in a titration, the concentration of hydrogen ions equals the concentration of conjugate base. Thus, pH equals pKa [P-K-A] at this point.

ANSWER: **half-equivalence** point [do NOT accept or prompt on “equivalence point”]

[M] This kind of acid has more than one equivalence point on its titration curve. Sulfuric acid and carbonic acid are examples of this kind of acid.

ANSWER: **polyprotic** acid [accept **diprotic** acid]

<Chemistry, Chapman> [Ed.]

11. **The Codex Gigas was transported to this city after a sack of Prague. The “Hats” and “Nightcaps” factions were based in this city. A ruler received the epithet “the Tyrant” after executing supporters of Sten Sture in one event in this city. A queen known as the “Minerva of the North” invited scholars such as Rene Descartes to teach in this city’s court; that queen, (\*) Christina, belonged to the House of Vasa. This city’s namesake “bloodbath” led to the end of the Kalmar Union. After his death in the 30 Years War, Gustavus Adolphus was buried in this city. For 10 points, name this capital of the Swedish Empire.**

ANSWER: **Stockholm**

<European History, Hartung> [Ed.]

This practice is mandated by the governments of Libya, Malaysia, Pakistan, and Saudi Arabia. For 10 points each:

[H] Name this practice that is required for amounts above the threshold of *nisab*.

ANSWER: **zakat** [prompt on almsgiving or charity with “give the Arabic term”]

[M] Besides the Quran, Islamic scholars also study this collection of Muhammad’s sayings and actions to understand the rules regarding *zakat*, including the fact that one should give 2.5% of their total wealth above *nisab*.

ANSWER: **hadith** [or **ahadith**; or **athar**]

[E] *Zakat* is one of this many Pillars of Islam that form the most fundamental practices in the religion.

ANSWER: **five**

<Religion, Suh> [Ed.]

12. **This poet wears a “mad, execution uniform” in another author’s poem “The Blue Flannel Suit.” This poet compared imaginary figures to “orange lollies on silver sticks” and claimed, “perfection is terrible, it cannot have children” in a poem describing the “morgue between Paris and Rome.” This poet described a man “[standing] at the blackboard” with a (\*) “cleft in your chin instead of your foot” in a poem that declares, “every woman adores a Fascist.” The line “you do not do, you do not do” opens a poem from this author’s collection *Ariel*. For 10 points, name this confessional poet who wrote “Daddy.”**

ANSWER: Sylvia **Plath**

<US Literature, Gayden> [Ed. Siddiqui]

Answer the following about mangrove [MAN-grohvz] forests. For 10 points each:

[E] Since they grow along the coast, mangroves are adapted to large amounts of this substance in soil. The amount of this substance dissolved in water is termed salinity.

ANSWER: **salt** [accept **sodium chloride** or other specific salts]

[H] Many mangroves are described by this term, as their seeds germinate while still attached to their parent tree. Animals described by this term give birth to live young instead of laying eggs.

ANSWER: **viviparous** [vye-VIP-ur-uhss] [accept **vivipary** or **viviparity**]

[M] Red mangroves have a thick layer of suberin [SOO-buh-rin] in these structures, preventing salt from entering. Extensions of these structures called pneumatophores [noo-MAT-uh-forz] help mangroves obtain oxygen.

ANSWER: **roots** [accept **root** systems or aerial **roots**]

<Biology, Yin> [Ed.]

13. **In a speech, this leader said that promises of “never again” were proving “worthless.” This leader proposed the United 24 Alliance. This leader quoted Ronald Reagan’s message to Mikhail Gorbachev, urging another leader to “break down this (\*) wall!”** This leader criticized Olof Scholz for collaborating on the NordStream 2 Pipeline the day after requesting a no-fly zone in a speech to the US Congress. This leader reportedly replied, “I need ammunition, not a ride” to offers of evacuation in March 2022. For 10 points, name this celebrity President of Ukraine.

ANSWER: Volodymyr **Zelenskyy** [accept Volodymyr Oleksandrovych **Zelenskyy**]

<Current Events, Gayden> [Ed.]

Exasperated viewers walk through a gallery of paintings of this figure in an Honoré Daumier sketch titled “Still more [this figure] this year! Always [this figure]!” For 10 points each:

[H] What figure is shown nude surrounded by putti in Academic paintings by William Adolphe Bouguereau and Alexandre Cabanel?

ANSWER: **Venus** [accept *Birth of Venus*]

[M] Bouguereau frequently displayed his works at this exhibition, the official art exhibition of the Academie des Beaux Arts.

ANSWER: Paris **Salon**

[E] Zephyrus blows wind towards Venus in this artist’s version of *The Birth of Venus*. This Italian Renaissance painter also depicted Venus and the Three Graces celebrating the title season in *La Primavera*.

ANSWER: Sandro **Botticelli**

<Painting, Guo> [Ed. Sun]

14. **Patterns called boojums were first observed in a substance with this property. Heat transfer occurs in substances with this property analogously to pressure waves, a phenomenon known as second sound. A substance with this property exhibits the fountain effect due to the formation of (\*) Rollin films that let it creep out of containers. Lev Landau developed a theory of this property, which is exhibited when helium-4 is cooled past its lambda point of 2.17 Kelvin. For 10 points, name this property in which a substance has zero viscosity, and flows with no resistance.**

ANSWER: **superfluidity** [accept **superfluids**; accept **superfluid** behavior]

<Physics, Melkumian> [Ed. Liu]

After winning a siege at one of these locations, one leader adopted a ruling philosophy of “All the world by force of arms,” or *tenka fubu*. For 10 points each:

[H] Name these locations. One of them named Inabayama was captured by a general who renamed both it and the surrounding city “Gifu.”

ANSWER: **castles** [accept (Siege of) Inabayama **Castle** or Gifu **Castle**; prompt on **fortresses**]

[M] This general led the victorious forces at the Siege of Inabayama Castle. After being betrayed by his retainer Akechi Mitsuhide, this first “Great Unifier” was forced to commit seppuku.

ANSWER: **Oda Nobunaga** [or **Nobunaga Oda**; accept any underlined portion]

[E] Nobunaga was aided by Toyotomi Hideyoshi and this shogun in the unification of Japan. This victor at the Battle of Sekigahara established Japan’s final shogunate, which was named after him.

ANSWER: **Tokugawa Ieyasu** [or **Ieyasu Tokugawa**; accept any underlined portion]

<World History, Hartung> [Ed. Nageswaran]

15. **One theory that describes these systems uses adjuncts and projections onto a head. The evolution of one part of these systems is described by Verner’s law. These systems can be reconstructed using the comparative method. These systems were programmed in the human mind by evolution, according to a book titled for their *Instinct* by (\*) Steven Pinker. These systems affect cognition in the Sapir-Whorf hypothesis. The syntactic rules of these systems are innate according to universal grammar. For 10 points, name these systems studied by Noam Chomsky and other linguists.**

ANSWER: **languages** [accept spoken **languages** or written **languages**; accept *The **Language Instinct***]

<Social Science, Wu> [Ed.]

Artificial “guide stars” can be used in this technique to measure wavefront errors. For 10 points each:

[H] Give the two-word name for this technique, which corrects for atmospheric distortions during astronomical observation.

ANSWER: **adaptive optics** [prompt on partial answer]

[M] A common type of UV [U-V] guide star employs the “Rayleigh” [RAY-lee] form of this phenomenon, which is often cited as the reason the sky is blue.

ANSWER: (light) **scattering** [accept Rayleigh **scattering**]

[E] The detected distortions are corrected for by deforming this part of the telescope. Reflecting telescopes have two of these components to focus light.

ANSWER: **mirrors**

<Astronomy, Liu> [Ed.]

16. **In one scene, this character insists that “everyone is privileged!” This character notes that a Czechoslovakian man who was murdered by his mother “pretty much deserved what he got” for playing games. This protagonist of *A Happy Death* offers a caretaker a cigarette before watching the old man Thomas Pérez faint during a (\*) funeral procession. As this character tells Marie Cardona about Salamano’s abusive relationship with his dog, he hears Raymond Sintès beating his girlfriend next door. The bright sun causes this character to shoot “the Arab” on the beach. For 10 points, name this protagonist of Albert Camus’s *The Stranger*.**

ANSWER: **Meursault** [accept Patrice **Meursault**; prompt on *The **Stranger*** or *L’**Étranger*** or *The **Outsider*** before read]

<European Literature, Gayden and Melkumian> [Ed.]



This character has “measured out [his] life with coffee spoons.” For 10 points each:

[M] Name this character, who begins the poem in which he appears by saying, “let us go then, you and I” and likening the evening to “a patient etherized upon a table.”

ANSWER: J. **Alfred Prufrock** [accept either underlined portion; accept “The Love Song of J. **Alfred Prufrock**”]

[E] This American-born poet of “The Love Song of J. Alfred Prufrock” wrote that “April is the cruellest month” to begin his five-part poem “The Waste Land.”

ANSWER: T. S. **Eliot** [or Thomas Stearns **Eliot**]

[H] Later in his “Love Song,” J. Alfred Prufrock claims, “I am not [this literary character], nor was meant to be.” A T.S. Eliot essay argues that this character “has had an especial temptation for that most dangerous type of critic.”

ANSWER: Prince **Hamlet** [accept “**Hamlet** and His Problems”]; do NOT accept or prompt on “King Hamlet”]

<U.S. Literature, Joshi> [Ed. Gayden]

17. In this country, a group of artists called the XX **[twenty]** formed in response to the rejection of a painting in which the artist’s sister eats oysters at a cluttered table. An artist from this country paints a black hummingbird from an egg in a self portrait titled *Clairvoyance*. A red banner hangs above a parade in a painting of Christ’s 1889 (\*) entry into this country’s capital. An artist from this country depicted a steam engine emerging from a fireplace in another work. That artist from this country wrote, “this is not a pipe” at the bottom of *Treachery of Images*. For 10 points, name this home country of James Ensor and René Magritte.

ANSWER: **Belgium** [or Kingdom of **Belgium**]

<Painting, Sun> [Ed. Gayden]

Answer the following about Charles Evans Hughes. For 10 points each:

[E] Hughes served as Secretary of State under this president, who promised a “return to normalcy” after winning the 1920 presidential election. This president’s term was rocked by the Teapot Dome Scandal.

ANSWER: Warren G. **Harding** [or Warren Gamaliel **Harding**]

[H] As Secretary of State, Hughes helped organize this disarmament conference, which set ratios of battleships between the major powers.

ANSWER: **Washington** Naval Conference [accept **Washington** Naval Treaty]

[M] In 1930, Hughes was appointed by President Hoover to succeed William Howard Taft in this position, in which Hughes confronted the liberal “Three Horsemen” and conservative “Three Musketeers.”

ANSWER: **Chief Justice** of the United States

<US History, Hartung> [Ed. Gayden]

18. A D-minor piece of this type paired with a fantasia opens with an ascending half-step theme, lending to its nickname of “chromatic”. It’s not a symphony, but one of these pieces nicknamed the “Little G-minor” was orchestrated by Leopold Stokowski, who also orchestrated a C-minor work pairing one of these pieces with a passacaglia. They’re not (\*) canons, but these works open with one voice stating the subject, which is answered by other statements of the subject in different keys. *The Well-Tempered Clavier* pairs one of these contrapuntal pieces with a prelude for each of the twenty-four keys. For 10 points, J.S. Bach paired what type of piece with a Toccata in D-minor?

ANSWER: **fugues** **[fyoogz]**

<Classical Music, Yang> [Ed. Bowman]

This city's Necklace Road surrounds the Hussain Sagar, an artificial lake famous for its large statue of the Buddha at the center. For 10 points each:

[H] Name this "city of pearls," the largest city in the state of Telangana. This city contains the Charminar mosque.

ANSWER: **Hyderabad**

[M] This language, also the official language of Pakistan, is the second most spoken in Hyderabad after Telugu. It was introduced to the area by the Nizams who ruled the area during the colonial era.

ANSWER: **Urdu**

[E] Hyderabad is currently the fourth-largest city in this country after rapid population growth in the 2000s. This country's largest city is Mumbai.

ANSWER: Republic of **India**

<Geography, Peela> [Ed. Ma]

19. *Description Acceptable.* In 2016, one of these works titled for the "Confessions" of a man played by William Bogert was remade. A work of this type about windsurfing closes with the line, "whichever way the wind blows." False, damaging examples of these works led to the term "swiftboating." One of these works featuring a revolving door criticizes a "Weekend Pass" given to (\*) Willie Horton. One of these videos opens by declaring, "It's morning again in America." In another of these videos, a nuclear countdown interrupts a young girl picking daisy petals. For 10 points, what short videos try to persuade voters to support a presidential candidate?

ANSWER: presidential **campaign ad**vertisements [accept **political ad**vertisements; before "windsurfing" is read; prompt on **advertisements** alone; prompt on **campaign** video by asking "made for what purpose?"]

<US History, Gayden> [Ed.]

This song is described as "something between *Clementine* and *La Cucaracha*." For 10 points each:

[H] Name this song, which states that "Soon or late the day is coming / Tyrant man shall be o'erthrown," after which the title location "shall be trod by [the title creatures] alone."

ANSWER: "**Beasts of England**" [prompt on, but DO NOT REVEAL the **anthem** of **Animal Farm**]

[E] Old Major teaches *Beasts of England* to Snowball, Napoleon, and other creatures in this George Orwell novella, which allegorizes the rule of Joseph Stalin.

ANSWER: **Animal Farm**

[M] In *Animal Farm*, Boxer adopts the motto "I will work harder" while building one of these structures, which Squealer later claims was sabotaged by Snowball. The title character of another novel calls these structures "cowards and vile beings."

ANSWER: **windmills** [the other novel is *Don Quixote*]

<British Literature, Joshi> [Ed.]

20. Cyclic groups with order equal to one of these numbers are always Leinster [LEN-stur] groups. Because their divisors have an integer harmonic mean, all of these numbers are examples of Ore's [OH-ruh's] numbers. Even examples of these numbers exist in a one-to-one correspondence with Mersenne [mur-SEN] primes according to the Euclid-Euler [YOO-kild OY-lur] theorem. These numbers are neither (\*) abundant nor deficient, and are a subset of the hexagonal and triangular numbers. All known examples of these numbers are even. For 10 points, name these numbers that equal the sum of their proper divisors.

ANSWER: **perfect** numbers

<Math, Melkumian> [Ed.]

Answer the following about the Hubbard Medal, which honors “lifetime achievement in research, discovery, and exploration.” For 10 points each:

[E] The Hubbard Medal is the highest honor that this scientific organization awards. This organization also publishes a namesake magazine with thick yellow borders on its cover.

ANSWER: **National Geographic** Society [accept **Nat Geo**]

[H] In 2000, National Geographic posthumously awarded the Hubbard Medal to this African-American explorer, who became the first person to set foot on the North Pole while part of Robert Peary’s 1909 expedition to the Pole.

ANSWER: Matthew (Alexander) **Henson**

[M] Another posthumous Hubbard Medal was awarded in 2020 to this African American mathematician who calculated spacecraft trajectories for NASA. Taraji Henson portrayed this woman in the movie *Hidden Figures*.

ANSWER: (Creola) Katherine **Johnson** [accept Katherine **Goble**]

<Current Events, Guo> [Ed.]