

Detroit Country Day Academic Regular Tournament II

Finals Packet 1

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Special thanks to Neil Gurram



1. **Marlowe Cook claimed that *Reed v. Reed* demonstrated the need for this legislation. Labor rights activists preferred “specific bills for specific ills” to this legislation. The popular Hayden Rider was added to this legislation without approval from its initial advocates. The Eagle Forum was founded by (*) Phyllis Schlafly to oppose this legislation. Alice Paul first proposed this legislation, which failed to meet the 1979 ratification deadline. For 10 points, name this proposed constitutional amendment that would prohibit gender-based discrimination.**

ANSWER: **Equal Rights Amendment** [or **ERA**; accept **Equal Rights** after “amendment” is read]
<US History, Gayden> [Ed.]

In one appearance, this author is invited to Appleton College to present a seminar on “The Lives of Animals,” where this author summarizes an ape experiment conducted by Wolfgang Köhler. For 10 points each:

[H] Name this fictional author who retold James Joyce’s *Ulysses* from the perspective of Molly Bloom in *The House on Eccles Street*.

ANSWER: **Elizabeth Costello** [accept either underlined portion; prompt on, but do NOT otherwise reveal J. M. Coetzee or John Maxwell Coetzee]

[M] *Elizabeth Costello* is a novel by this South African author of *Life & Times of Michael K*, who wrote about David Lurie in *Disgrace*.

ANSWER: John Maxwell **Coetzee** [or J. M. **Coetzee**]

[E] In *Disgrace*, David Lurie loses his job as a communications lecturer in this position after having an affair with his student Melanie Isaacs.

ANSWER: **professor** [accept **teacher** or equivalents]
<World Literature, Melkumian> [Ed.]

2. **Rows of palm trees line the entrance to an art museum in this country built of limestone that contains a stainless steel oculus dome supported by interior triangular pillars. The desert rose inspired the design of this country’s National Museum by Jean Nouvel. It’s not China, but the hull of a *dhow* inspired the roof of a stadium in this country designed by (*) Zaha Hadid. I.M. Pei’s Museum of Islamic Art in this country’s capital. In the winter of 2022, this country will host the FIFA World Cup. For 10 points, name this rich Arab country with its capital at Doha.**

ANSWER: **Qatar** [or State of **Qatar**]
<Architecture, Gayden> [Ed.]

This equation can be solved with a change of variables to “ $x + ct$ ” and “ $x - ct$.” For 10 points each:

[H] What partial differential equation sets the second time derivative of u equal to the second derivative of u with respect to x , where u is a function characterizing its namesake phenomena?

ANSWER: (one-dimensional) **wave** equation

[E] Because the wave equation has this property, the sum of any two solutions is itself a valid solution to the equation. Functions with this property can be expressed in slope-intercept form.

ANSWER: **linear** (function or equation)

[M] These waves can be expressed mathematically as the sum of two waves traveling in opposite directions. These waves have zero amplitude at points called “nodes.”

ANSWER: **standing** waves

<Physics, Wu> [Ed. Liu]

3. **This person is the head of a group called “Over There” in a novel whose protagonist suffers from a chronic toothache. This person “forges decrees in a line like horseshoes” and has “huge laughing cockroaches on his top lip” in a poem that begins, “Our lives no longer feel ground under them.” That poem by Osip Mandelstam is titled [this man’s] (*) “Epigram.” This man is portrayed as “Number One” in Arthur Koestler’s novel *Darkness at Noon*, which depicts the interrogation and execution of Rubashov. For 10 points, name this dictator who led the Soviet Union during World War II.**

ANSWER: Joseph **Stalin** [or Joseph Vissarionovich **Stalin** or Ioseb Besarionis dze **Jughashvili** or Iosif Vissarionovich **Dzhugashvili**; prompt on Man of Steel or any other nicknames] (“Over There” is the codename for the Soviet Union in *Darkness at Noon*)

<European Literature, Melkumian> [Ed.]

Answer the following about comedians who used to be on Saturday Night Live. For 10 points each:

[M] This comedian behind stand-up specials such as “New in Town” and “Kid Gorgeous” announced in September 2021 that he and girlfriend Olivia Munn were expecting a child.

ANSWER: John (Edmund) **Mulaney**

[E] This current host of *The Tonight Show* anchored SNL’s *Weekend Update* with Tina Fey before he was replaced by Amy Poehler in 2004.

ANSWER: Jimmy (Thomas) **Fallon**

[H] This recently deceased comedian, who joked that “murder is now legal in the state of California” after the O.J. Simpson trial verdict, anchored *Weekend Update* from 1994 to 1997.

ANSWER: Norm (Gene) **Macdonald**

<Popular Culture, Joshi> [Ed.]

4. **Allyl vinyl [OW-ihl VYE-nih] examples of these compounds can undergo a [3,3]-sigmatropic [three-three sig-muh-TROH-pik] rearrangement named after Rainer Claisen [RYE-nur KLYE-sen]. THF is a cyclic one of these compounds used as a solvent for PVC plastic. An alkyl [AL-kih] halide reacts with an alkoxide to form one of these compounds in the (*) Williamson synthesis. The simplest one of these compounds replaced chloroform as an anesthetic and is their “diethyl” [die-ETH-ul] type. Cyclic examples of these compounds include epoxides as well as their “crown” variant. For 10 points, name these compounds that contain two R groups bonded to a central oxygen atom.**

ANSWER: **ethers** [EE-thurs] [accept crown **ethers** or diethyl **ether** or allyl vinyl **ethers**]

<Chemistry, Chapman> [Ed.]

Answer the following about plays that won the Pulitzer Prize for Drama in the 1990s. For 10 points each:

[E] This playwright of *Who's Afraid of Virginia Woolf* won the Prize for *Three Tall Women* in 1994.

ANSWER: Edward **Albee**

[M] The 1993 prize was awarded to this play, subtitled a "Gay Fantasia on National Themes," in which Louis Ironson leaves his AIDS-infected partner Prior Walter.

ANSWER: **Angels in America**: (*A Gay Fantasia on National Themes*) [accept **Millennium Approaches**; do NOT accept or prompt on "Perestroika"]

[H] In 1991, Neil Simon won the award for this play, in which Jay and Arty Kurnitz plan to steal their grandmother's money so they can move back in with their father.

ANSWER: **Lost in Yonkers**

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

5. **An event involving one of these non-living objects explained the presence of amber in the Eridanus River. One of these objects broke apart after Myrtilus replaced some of its components with ones made of beeswax. Zeus killed Salmoneus for attaching cauldrons to one of these objects to imitate thunder. (*)** Pelops [PEE-lahps] won the hand of Hippodamia by defeating Oenomaus in a contest involving these objects. An accident involving one of these objects darkened the complexion of Ethiopians; that event began when Phaethon [FAH-thon] unwisely begged his father to ride one of these objects. For 10 points, name this type of vehicle that Helios rode across the sky.

ANSWER: **chariots** [accept **chariot** wheels]

<Mythology, Suh> [Ed.]

Helmuth von Moltke remarked that although "in its original form [this document] sounded like a parley," now, it was like a "flourish of trumpets in answer to a challenge." For 10 points each:

[M] Name this document edited by Otto von Bismarck, which prompted a neighboring country to declare war on Prussia.

ANSWER: **Ems** Dispatch [or **Ems** Telegram]

[E] The Ems Dispatch provoked this country's ruler Napoleon III to declare war on Prussia in 1870.

ANSWER: **France** [or Second **French Empire**; accept **Franco**-Prussian War]

[H] Following German unification, Bismarck attempted to secure Prussia's position of power in Europe with this secret 1887 treaty signed with Russia. Kaiser Wilhelm II's failure to renew this treaty following Bismarck's dismissal gave rise to a Franco-Russian alliance in World War I.

ANSWER: **Reinsurance** Treaty [do NOT accept or prompt on "League of the Three Emperors"]

<European History, Gayden> [Ed.]

6. **This is the only river to have a tributary form a true delta while flowing into it. It's not the Amazon, but the franciscana, also named for this river, is the only river dolphin to live in the ocean. This widest river in the world accepts the Southern Salado River, a colonial frontier, before ending at Punta del Este. The final viceroyalty created was named for this river and became its namesake (*)** "United Provinces" after independence. This estuarine river has the second-largest drainage basin in South America. For 10 points, name this river formed by the Paraná and Uruguay rivers, on which lies two national capitals, Montevideo and Buenos Aires.

ANSWER: Río de la **Plata** [accept River **Plate**]

<Geography, Ma> [Ed.]

Shortly after this aria ends, two British officers find the jewelry left behind by one of its singers. For 10 points each:
[H] Give the common name of this aria sung by the daughter of a Brahmin priest and her servant Mallika about plants which cast their shadow onto the river next to them.

ANSWER: **Flower Duet** [accept *Duo des fleurs* or *Sous le dôme épais*]

[E] The Flower Duet is from Léo Delibes' opera *Lakmé*, whose libretto is in this language. Jean-Baptiste Lully was sponsored by Louis XIV to write operas in this language.

ANSWER: **French** language [or **Français**]

[M] This other composer explored similar orientalist themes to *Lakmé* in his opera *The Pearl Fishers*, which is set in Sri Lanka. This composer's other stage works include his incidental music to the play *L'Arlésienne* [lar-lay-zee-EHN].

ANSWER: Georges **Bizet** [George bee-ZAY]

<Opera, Gayden> [Ed. Bowman]

7. **The plans for a port city in this modern-day country were laid out using barley flour. Police in this modern-day country used baboons to catch thieves. A ruler of this modern-day country won the Battle of Raphia against Antiochus III. Callimachus wrote his *Pinakes* about a building in this modern-day country whose contents were partially destroyed in a (*) fire set by Julius Caesar. An earthquake destroyed a lighthouse on this modern-day country's island of Pharos. The Ptolemaic dynasty patronized members of the Library of Alexandria in, for 10 points, what country whose ancient civilization was based around the Nile River?**

ANSWER: **Egypt** [or Arab Republic of **Egypt**]

<Ancient History, Pavlou and Gayden> [Ed.]

This thinker contrasted logical hot media, such as silent films, with abstract cool media, such as television in a book
For 10 points each:

[M] Name this Canadian media theorist who wrote a study of pop culture in *The Mechanical Bride*. This thinker coined the phrase "the medium is the message."

ANSWER: (Herbert) Marshall **McLuhan**

[E] McLuhan coined the term "global village" to describe the world becoming more connected due to new technologies in a work titled for the "galaxy" of this German inventor of the printing press.

ANSWER: Johannes **Gutenberg** [accept **Gutenberg** Bible]

[H] This philosopher disagreed with McLuhan's claim that the "end of the book" was near in his essay "Signature Event Context." This thinker pioneered the method of "deconstruction."

ANSWER: Jacques **Derrida**

<Philosophy, Palavajhala> [Ed.]

8. [NOTE TO MODERATOR: Please review answerline carefully before reading]

An impressionistic one of these works contains green and yellow brushstrokes of paint and is by Elaine de Kooning. Nelson Shanks depicted the shadow of a blue dress next to a man standing in front of a fireplace in another of these works. One of these paintings nicknamed "The Meowing Cat" was discarded by its owner, leading (*) John Singer Sargent to paint a replacement showing a man placing his hand on a balustrade post. A "Lansdowne" one of these paintings by Gilbert Stuart was saved by Dolly Madison from burning during the War of 1812. For 10 points, name these artworks depicting leaders of the United States.

ANSWER: **presidential portraits** [accept equivalents like **portraits** of U.S. **Presidents**; prompt on **portraits** by asking, "portraits of whom?"]

<Painting, Guo> [Ed. Sun]

This poem's title creature "Had chosen thus to fling his soul / Upon the growing gloom." For 10 points each:
[H] Name this poem, whose narrator hears the "full-hearted evensong" of the title creature as he "leant upon a coppice gate."

ANSWER: "The **Darkling Thrush**"

[M] This English poet of "The Darkling Thrush" wrote of "starlit Stonehenge" in "Channel Firing." He also wrote about the sinking of the Titanic in "The Convergence of the Twain."

ANSWER: Thomas **Hardy**

[E] The title woman of this Thomas Hardy novel murders her rapist Alec and marries Angel Clare.

ANSWER: **Tess of the d'Urbervilles**

<British Literature, Joshi> [Ed.]

9. **A nurse gives children chocolate eclairs to distract them from this character grieving next to his mother's deathbed. This character is offended by another character who laughs uncontrollably at his reading of an excerpt from *Romeo and Juliet*. This character calls a crowd of Deltas "mewling and puking" babies before throwing (*) pills out of a window in an attempt to incite a rebellion. After that failed revolt, this character whips himself while isolating himself at a lighthouse. For 10 points, name this "Savage" from the Malpais Reservation who hangs himself at the end of Aldous Huxley's *Brave New World*.**

ANSWER: **John** the Savage

<British Literature, Guo> [Ed.]

People with Li-Fraumeni [Lee FRAW-mun-ee] syndrome inherit only one functional copy of the *TP53* [T-P-fifty-three] gene, predisposing them to this disease. For 10 points each:

[E] Name this disease in which cells grow uncontrollably. Types of it include leukemia [loo-KEEM-ee-uh] and sarcoma.

ANSWER: **cancer**

[M] These genes cause cancer if they are mutated or overexpressed. The *ras* [rass] gene is a precursor to one of these genes, which are often contrasted with tumor suppressor genes.

ANSWER: **oncogenes** [ON-koh-jeenz] [accept proto-**oncogenes**]

[H] According to this hypothesis, *both* alleles of a tumor suppressor gene must be inactivated before cancerous phenotypes can emerge.

ANSWER: **two-hit** hypothesis [or **Knudson** hypothesis]

<Biology, Joshi> [Ed.]

10. **In this programming language, variable declarations are moved to the start of the program in a process known as hoisting. The -cli [C-L-I] tag is used in a command-line package manager for this language when it does not wish to override a package-lock file; that application is npm. This language comes with a native stringify function for (*) JSON objects. Express servers can be hosted in a backend version of this language, its Node runtime. This language is commonly included with script tags in HTML. For 10 points, name this programming language of the web whose programs use the file extension .js [J-S].**

ANSWER: **JavaScript** [accept **JS** before ".js" is read; do NOT accept or prompt on "Java"]

<Computer Science, Wu> [Ed.]

Answer the following about Indonesian trading empires. For 10 points each:

[H] This largest Buddhist temple in the world was constructed under the Javanese Sailendra Dynasty. This temple is divided into sections which represent the three spheres central to Buddhism.

ANSWER: **Borobudur** [or Candi **Borobudur**]

[E] The maritime Srivijaya empire profited from controlling the trade of these precious commodities, which included clove and nutmeg.

ANSWER: **spices**

[M] The Srivijaya empire was invaded by the Chola Empire which, like the Pandya Empire, was ruled by people of this ethnicity. These people's literature developed during the Sangam period and include the "Five Great Epics."

ANSWER: **Tamils** [or **Tamilians**; prompt on **Dravidians**; prompt on **Indians**]

<World History, Gayden> [Ed.]

11. **This actor both directed and starred as Nick Vaughan in a film in which he helps Brooke Dalton locate a stolen purse called *Before We Go*. A character played by this actor emails the address "1209 Columbus Road" after injecting Fran with morphine, and tries to frame the nurse Marta Cabrera for his grandfather's murder. While jogging by the (*) Lincoln Memorial, another character played by this actor says, "on your left" to his eventual successor. That character played by this author wields a vibranium shield and is named Steve Rogers.**
For 10 points, name this actor who portrayed the original Captain America in the Marvel Cinematic Universe.

ANSWER: Chris **Evans** [The second clue refers to *Knives Out*]

<Popular Culture, Joshi> [Ed. Gayden]

This plan outlined universal Pre-K and childcare subsidies for families with children under 6. For 10 points each:

[M] Name this plan for social programs and climate policy spearheaded by the Biden Administration.

ANSWER: **Build Back Better** plan [accept **Build Back Better** Act or **House Resolution 5376**]

[E] In December 2021, this Democratic senator from West Virginia said that he would not support Build Back Better. This senator and Kyrsten Sinema have angered progressives for blocking much of the Democratic agenda.

ANSWER: Joe **Manchin** [or Joseph **Manchin** III]

[H] In January 2022, Manchin said he would revisit the Build Back Better agenda if an income cap and work requirement were added to this credit provision, or if it was eliminated entirely.

ANSWER: **Child Tax** Credit [or **CTC**]

<Current Events, Gayden>

12. **Hideki Yukawa's investigations of forces in these structures led to his prediction of the existence of the pion [PYE-awn]. The surface term a -sub- s times A to the two-thirds appears in one model of these structures that treats them as a liquid. The motion of these structures is considered negligible in the Born-Oppenheimer approximation. The (*) shell model describes these structures that are held together by the residual strong force. These structures were first discovered when they scattered alpha particles in the Rutherford gold foil experiment.**
For 10 points, name these structures consisting of protons and neutrons located at the center of an atom.

ANSWER: atomic **nucleus** [or atomic **nuclei**; accept **nuclear** shell model]

<Physics, Wu> [Ed. Liu]

Cosimo III de Medici ordered fig leaves to be added to a painting depicting these two figures. For 10 points each:
[E] Name these two Biblical figures. A Masaccio fresco depicting these two figures shows an angel with a sword chasing them out of the Garden of Eden.

ANSWER: **Adam** and **Eve** [accept answers in either order; prompt on partial answers]

[M] That fresco, *The Expulsion from the Garden of Eden*, is located next to this other Masaccio fresco, whose left side shows Peter removing a coin from a fish's mouth to pay a temple tax.

ANSWER: *The **Tribute Money***

[H] *The Tribute Money* and *The Expulsion from the Garden of Eden*, along with many other Masaccio works, are housed in this Florence chapel.

ANSWER: **Brunelleschi** Chapel

<Visual Fine Arts, Guo> [Ed. Sun]

13. **This leader used the “bread or the stick” principle to ensure compliance with his policies. This leader falsely claimed to James Creelman that he would not seek reelection in 1910. Reforms under this leader were promulgated by technocratic *científicos* such as José Yves (*) Limantour. The Plan of San Luis Potosí called for this leader's overthrow after he jailed his presidential opponent Francisco Madero. For 10 points, name this Mexican president whose 31 year tenure came to an end after he was forced to resign in 1910 during the Mexican Revolution.**

ANSWER: Porfirio **Díaz** [accept José de la Cruz Porfirio **Díaz** Mori]

<World History, Gayden> [Ed. Nageswaran]

Simpson's Rule is used as an approximation of this function for finding the area under a curve. For 10 points each:

[E] Name this operation in calculus used to find the antiderivative of a function.

ANSWER: **integral** [accept **integration**]

[M] Integrals can be rigorously defined using this approximation technique. The left, right, and midpoint rules are examples of this technique that uses rectangles to approximate an integral.

ANSWER: **Riemann sum** [REE-mahn sum]

[H] The Lebesgue [luh-BEG] integral redefines the integral in terms of this quantity, making it more general than the Riemann integral. In Euclidean space, Lebesgue names a type of this quantity that represents the “size” of a set.

ANSWER: **measure** [accept more specific answers, such as Lebesgue **measure**; prompt on **mu**]

<Math, Peela> [Ed. Liu]

14. **The tact of one character in this novel is compared to that of her namesake, Catherine the Great. This novel's protagonist declares that “women ought to be... as free as we are” while gossiping with Sillerton Jackson. After Julius Beaufort's financial fraud is revealed in this novel, a stroke is suffered by the obese Mrs. (*) Manson Mingott. This novel made its author the first female Pulitzer Prize winner. Despite his marriage to May Welland, this novel's protagonist carries on an affair with the Polish Countess Ellen Olenska. For 10 points, name this novel about Newland Archer's growing distaste for aristocratic New York life by Edith Wharton.**

ANSWER: *The **Age of Innocence***

<US Literature, Gayden> [Ed.]

The background of this photograph is dominated by the vertical pattern of a tall building. For 10 points each:
[M] Name this Richard Drew photograph of a person plunging to his death after jumping out of a skyscraper.

ANSWER: *The **Falling Man***

[E] Richard Drew captured “The Falling Man” during this event. Another photograph taken during this event by Lyle Owerko showed the moment in which a plane hit one of the Twin Towers.

ANSWER: **September 11**, 2001 attacks [or **9/11** attacks; accept the **destruction** of the **World Trade Center**; accept equivalents; do NOT accept or prompt on “World Trade Center bombing”]

[H] A photo of five people carrying Mychal Judge’s body during 9/11 has been called the American version of these works. A photo of a father holding David Kirby’s head as he succumbs to AIDS has also been given this name.

ANSWER: **Pieta** [accept “American **Pieta**”]

<Photography, Guo> [Ed. Gayden]

15. **Former Defense Secretary Jim Mattis advocated for military use of this company's technology before joining its board until 2016. A 2015 Wall Street Journal article by John Carreyrou exposed how this company failed to report test results for its “Edison” device, which could ostensibly perform (*) tests on a drop of blood to diagnose diseases. In 2018, the SEC charged this company, including its former president Ramesh Balawani, for deceiving investors about the efficacy of their product. For 10 points, name this Silicon Valley startup whose founder, Elizabeth Holmes, was found guilty of four counts of fraud in January 2022.**

ANSWER: **Theranos**

<Current Events, Chapman> [Ed.]

A speech opposing this policy by William Jennings Bryan claimed that “our whole history has been an encouragement” to “all who are denied a voice in their own government.” For 10 points each:

[H] Name this policy whose implementation led to a three-year-long guerilla war and the creation of the Insular Government. *A description is acceptable.*

ANSWER: American **annexation** of the **Philippines** [accept synonyms; prompt on **imperialism** or **annexation**; do NOT accept or prompt on “entering the Spanish-American War” or “Cuban annexation”]

[E] This robber baron opposed annexation so strongly that he personally offered 20 million dollars for the Philippines to buy their independence. This Scottish-American steel magnate wrote the *Gospel of Wealth*.

ANSWER: Andrew **Carnegie**

[M] This Filipino revolutionary led rebel forces during the Philippine-American War. He later served as the first president of the Philippines.

ANSWER: Emilio **Aguinaldo** (y Famy)

<US History, Gayden> [Ed.]

16. **An army of this ethnicity won the Battle of Tethenhall. The Laws of Ine [EE-nay] were issued by a ruler of this ethnic group, whose history is documented in a namesake “chronicle.” One scholar of this ethnicity wrote an Ecclesiastical history beginning with a 55 A.D. Roman invasion. A king of this ethnicity named (*) Egbert united much of its heptarchy. The decline of this ethnnic group began with the Lindisfarne Raid. This ethnic group’s kingdom of Wessex was ruled by Alfred the Great. For 10 points, name this ethnic group that ruled England from the Roman withdrawal to the Viking invasion.**

ANSWER: **Anglo-Saxons** [prompt on **Angles** or **Saxons** or **Jutes**; prompt on **English** before mention; do NOT accept or prompt on “Scots” or “Picts” or “Welsh”]

<European History, Gayden> [Ed.]

This man created an emotional classification system known as the “tone scale.” For 10 points each:

[M] Name this man who served as “Commodore” of a personal fleet of ships called the Sea Organization. He came up with zany ideas such as “auditing” one’s mind, which could be found in his *Dianetics*.

ANSWER: L. Ron **Hubbard**

[E] Hubbard is believed to have “dropped his body” to continue working in another plane of existence by followers of this religion that he founded.

ANSWER: Church of **Scientology**

[H] According to Hubbard, practitioners of Scientology strive to reach this state on their way to the Bridge of Total Freedoms. This state, reached when one is free from the “reactive mind,” is the stage before Operating Thetan.

ANSWER: **Clear**

<Religion, Peela> [Ed. Suh]

17. **One of these works by Johannes Ockeghem consists entirely of prolation canons. In a work of this type, J. S. Bach parodied several themes from his early cantatas in its “Osanna” fourth section. The “brevis” form of these works is less extensive than the “solemnis” form, which was used by Beethoven in one of his best-known (*) choral works.** Giovanni Palestrina supposedly wrote one of these pieces to defend polyphony at the Council of Trent named for Pope Marcellus. Like most pieces of this type, Bach’s one in B-minor begins with a *Kyrie* and *Gloria* section. For 10 points, name these choral pieces that set parts of the Catholic liturgy to music.

ANSWER: **masses** [accept *missa solemnis*; accept *missa brevis*]

<Classical Music, Bowman> [Ed.]

For 10 points each, answer the following about flame tests:

[E] In a flame test, a solution coating a nichrome [NYE-krohM] wire is heated over this gas-burning laboratory device, producing a colored flame.

ANSWER: **Bunsen burner**

[M] Sodium produces a yellow flame as a result of the D1 and D2 examples of these things, which were discovered in the Sun’s spectrum by Joseph von Fraunhofer. These things can result from emission or absorption.

ANSWER: spectral **lines** [accept Fraunhofer **lines**]

[H] As the yellow color of sodium can contaminate results, it is often eliminated by viewing the flame test through this specific type of glass, which serves a similar function to didymium [dye-DIM-ee-uhm].

ANSWER: **cobalt** (blue) glass

<Chemistry, Wu> [Ed.]

18. **A classic book by Seymour Lipset and Stein Rokkan linked these entities to “social cleavages.” The Michigan Model contends that association with these entities is mainly formed by familial influences at a young age. The “iron law of oligarchy” was first posited in a Robert Michels book titled for these entities. (*) Duverger’s Law states that single-ballot plurality-rule systems allow for just two of these entities. Political polarization results from increased identification with these entities.** For 10 points, what entities include the Republican and Democratic ones?

ANSWER: political **parties** [or political **party**; accept **partisan** identification; do NOT accept or prompt on answers like “ideologies” that do not indicate an organized political party]

<Social Science, Gayden> [Ed.]

This character plays the aria “Valentine’s Prayer” during a séance with Dr. Krokowski to summon his dead cousin. For 10 points each:

[M] Name this character who visits his tubercular friend Joachim Ziemssen in the title Swiss sanatorium of *The Magic Mountain*.

ANSWER: Hans Castorp [accept either underlined portion]

[E] This German author who depicted Hans Castorp in *The Magic Mountain* also wrote *Death in Venice*.

ANSWER: Thomas Mann

[H] In a chapter of *The Magic Mountain* titled for this substance, Hans dreams of two witches slaughtering a child in a temple. In a section of a novel by a different author titled for this substance, the protagonist listens to Simonov and his schoolmates plan a farewell dinner for Zverkov.

ANSWER: snow [accept “Apropos of the Wet Snow”]

<European Literature, Joshi> [Ed.]

19. **This disease can be tested for by an iontophoresis [eye-AHN-toh-fur-EE-sis] technique named after Gibson and Cooke. Patients with this disease may experience malabsorption of nutrients due to blocked pancreatic ducts, which can also cause the pancreas to become inflamed and scarred. Resistance to (*) cholera [CAH-lur-uh] is a hypothesized advantage of carrying the allele [uh-LEEL] for this disease. This disorder can be tested for by measuring whether a person’s sweat is abnormally salty. A defect in the chloride channel CFTR causes, for 10 points, what genetic disease characterized by a thick buildup of mucus in the lungs?**

ANSWER: cystic fibrosis [or CF]

<Biology, Bajji> [Ed. Yin]

Answer the following about agricultural success in Mississippi. For 10 points each:

[H] Mississippi’s northwest corner is particularly fertile due to being in the delta of this river. This river’s delta is formed by parallel rivers that converge at Vicksburg, a pattern known as its namesake type of tributary.

ANSWER: Yazoo River [accept Yazoo tributary or stream]

[E] The Black Belt, a narrow band in northeast Mississippi and central Alabama, is a particularly fertile region of this substance that supports short-staple cotton very well. This substance is key for most terrestrial plant life.

ANSWER: soil [accept colloquialisms like dirt or earth]

[M] While both the Delta and the Black Belt have black soil, the Delta’s is alluvial while the Black Belt’s consists of eroded outcroppings of this white rock, formed by the fossilized remains of ancient plankton.

ANSWER: chalk [accept limestone]

<Geography, Ma> [Ed.]

20. **A wise old man in this novel rids an estate of an ant infestation. In this novel, Nicolas opens the spiritual Institute of Union and Nothingness after returning from India. The narrator of this novel kicks his sister Ferula out of the house after finding her in bed with his wife and maintains a lifelong relationship with the prostitute Transito Soto, who helps him find his granddaughter (*) Alba. In this novel, the green-haired Rosa the Beautiful accidentally drinks a poison meant for her father, leading the clairvoyant Clara to refuse to speak for nine years. Esteban Trueba narrates, for 10 points, what debut novel by Isabel Allende?**

ANSWER: *The House of the Spirits* [or *La casa de los espíritus*]

<World Literature, Gayden> [Ed.]

One participant in this event summarized his views in a book subtitled *Against the Fanatics*. For 10 points each:
[H] Name this three-day-long meeting convened by Philip I of Hessen to resolve a dispute over the presence of Christ in the Eucharist.

ANSWER: **Marburg Colloquy** [or **Colloquy of Marburg**]

[E] This religious reformer debated Ulrich Zwingli during the Marburg Colloquy. This reformer's posting of his 95 *Theses* on the door of a Wittenberg church kicked off the Protestant Reformation.

ANSWER: Martin **Luther**

[M] The presence of Christ in the Eucharist was later debated at a diet in this city. The doctrine of *Cuius regio, eius religio* gave princes the freedom to choose their subjects' religion in a 1555 peace named for this city.

ANSWER: **Augsburg** [accept Peace of **Augsburg**]

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