

## Regular Academic Fall Tournament III

Head Edited by Arthur Delot-Vilain and Shardul Rao

Edited by Dean Ah Now, Gus Carvell, Tasis Gemmill-Nexon, Alex Moon, Karsten Rynearson, and Maxwell Ye

Written by Joy An, Blake Andert, Jake Boonin, Dylan Bowman, Ean Casey, Shohom Chakraborty, Joseph Chen, Rachel Ezrielev, Eddie Fuhrer, Max Gedajlovic, Elizabeth Grace, Arjun Kala, Matthew Kaung, Amogh Kulkarni, Athena Liu, Joel Miles, Sinecio Morales, Owen Riley, Samir Sarma, Bryanna Shao, Cece Shao, Danesh Sivakumar, Ananya Tadigadapa, Shiva Tegulla, Coby Tran, Felix Wang, John Wang, Paul Wang, Raymond Wang, Ben Weiner, Amanda Wu, Junzhi Xie, Michelle Yu, Audrey Yuen, Nathan Zhang, Walter Zhang, and the editors

Special thanks to Dylan Bowman, Bryanna Shao, Paul “Do You Have Ears?” Wang, and Ben Weiner

---

### Packet 4

1T. **It’s not Milwaukee, but while playing for an NBA team in this city, Bobby Portis punched Nikola Mirotic in the face at a practice during the tenure of coach Fred Hoiberg. Stacey King is the color commentator for that team from this city, whose players include Javonte Green and Ayo Dosunmu. A player nicknamed the “Bald Mamba” left the Los Angeles Lakers in free agency to join a team from this city along with (\*) Lonzo Ball and DeMar DeRozan. Candace Parker and Courtney Vandersloot play for a team in this city which won the 2021 WNBA championship, named the Sky. For 10 points, Michael Jordan won six rings with the Bulls, a team from what city?**

ANSWER: **Chicago**, Illinois [accept **Chicago** Bulls or **Chicago** Sky]

<Bowman — Pop Culture>

1B. In *United States v. Lopez*, the Supreme Court ruled that the Gun-Free School Zones Act was an unconstitutional exercise of this clause. For 10 points each:

[H] Name this clause. Its power was expanded after an 1824 case that considered whether the state of New York could give a monopoly over steamboat navigation.

ANSWER: **Commerce** Clause [accept **Article I, Section 8, Clause 3**; accept descriptions of Congress’s power to regulate interstate **commerce**]

[E] The Supreme Court upheld Title II of the Civil Rights Act under the Commerce Clause in a case originating from this state’s Heart of Atlanta Motel. John Marshall overturned a law banning non-Native Americans from travelling on native land after this state arrested Samuel Worcester.

ANSWER: **Georgia**

[M] In the majority opinion of *NFIB v. Sebelius*, John Roberts upheld the constitutionality of this policy, despite his belief that it was not a proper use of the Commerce Clause. In *King v. Burwell*, the Court upheld the validity of tax credits from federal healthcare exchanges set up by this law.

ANSWER: **Affordable Care Act** [or **ACA**; accept **Obamacare**]

<Ah Now — American History>

2T. **In a picture taken in a war won by this leader, a man collapses to the ground as his rifle falls out of his hand. This leader banned all trade unions in his country except for the “vertical syndicate.” This leader led his nation’s foreign legion during the Rif War. A helicopter crash killed this leader’s political rival José (\*) Sanjurjo. In 2019, this leader’s remains were removed from the Valley of the Fallen. The German Condor Legion bombed Guernica under the direction of this leader of the Falange party. For 10 points, name this Generalissimo who came to power following his victory in the Spanish Civil War.**

ANSWER: Francisco **Franco** Bahamonde

<Gedajlovic — European History>

2B. Black mambas have a potent bite and are widely regarded as one of the most dangerous snakes in the world. For 10 points each, answer these questions about the mechanisms of their venom:

[H] Black mamba venom contains this class of presynaptic toxins, which increase acetylcholine release at neuromuscular junctions and may result in convulsions and paralysis.

ANSWER: **dendrotoxins**

[E] Dendrotoxins block voltage-gated ion channels for this element, which is responsible for hyperpolarization. Along with the sodium ion, this element's plus-1 ion establishes the resting membrane potential for neurons.

ANSWER: **potassium** [or **K**; accept **potassium** plus-1 or **K**-plus; accept voltage gated **potassium** ion channels or sodium-**potassium** channels]

[M] Dendrotoxins obstruct potassium currents by binding to the nodes of Ranvier on these neural structures. In motor neurons, action potentials propagate along these long regions partially covered by a myelin sheath.

ANSWER: **axons**

<Xie — Biology>

3T. **This quantity's quadratic dependence on position at small perturbations allows a system to be approximated as a simple harmonic oscillator. The time average of this quantity is summed over a group of objects in the virial theorem. This quantity is the negative term in the Lagrangian. A force that is conservative can be represented as the negative gradient of this quantity. In the absence of dissipative forces, (\*) work is equal to the negative change in this quantity. The gravitational form of this quantity equals weight times height above a reference point.** For 10 points, name this quantity that represents the "stored energy" of a system.

ANSWER: **potential energy** [accept gravitational **potential energy**; prompt on **potential** or **energy**]

<Ye — Physics>

3B. The narrator of this essay compares the title action to "destroying a huge and costly piece of machinery." For 10 points each:

[H] Name this essay, which was inspired by its author's time as a policeman in Burma and follows a man's quest to kill the title animal.

ANSWER: "**Shooting an Elephant**"

[E] "Shooting an Elephant" is by this author, who compared poorly written English to oppression in his essay "Politics and the English Language" and described Winston's torture in Room 101 in his novel *Nineteen Eighty-Four*.

ANSWER: George **Orwell** [or Eric (Arthur) **Blair**]

[M] Orwell also recounted his time volunteering during this war in a book titled for an "Homage to" a location in this war. Another novel set during this war is Ernest Hemingway's *For Whom The Bell Tolls*.

ANSWER: **Spanish Civil** War [or Guerra **Civil Española**]

<Ezriev — British Literature>

4T. **A poem set at nighttime in one of these places declares "[a] vast similitude interlocks all" and describes an "old mother" swaying "to and fro singing her husky song"; that Walt Whitman poem is titled "On [this place] at Night Alone." An Anthony Hecht parody of a poem titled for one of these places describes a girl who had "read / Sophocles in fairly good translation." That poem set at one of these locations mentions a "note of sadness" (\*) on the Aegean that evokes "the turbid ebb and flow of human misery." In that poem, the narrator describes "the grating roar of pebbles" at one of these locations where "ignorant armies clash by night." For 10 points, name this setting of a Matthew Arnold poem set near the sea at Dover.**

ANSWER: **beaches** [accept "Dover **Beach**" or "On the **Beach** at Night Alone"]

<Rynearson / Delot-Vilain — British Literature>

4B. *Description acceptable.* One character returns this object to three women before killing herself on her lover’s funeral pyre. For 10 points each:

[M] Name this object created from gold that another character stole from the Rhinemaidens. Wotan is forced to give this object to Fasolt and Fafner after stealing it from its creator, Alberich.

ANSWER: the **ring** from the *Ring Cycle* [accept Alberich’s **ring** or the **Ring Cycle** or *The **Ring** of the Nibelung* or *Der **Ring** des Nibelungen*]

[E] Brünnhilde [brook-HILL-duh], who returns the ring to the Rhinemaidens, is one of these beings who title the second opera of the *Ring Cycle*. Wagner wrote a piece titled for “The Ride of” these winged female warriors from Norse mythology.

ANSWER: **valkyries** [or *The **Valkyrie*** or *Die **Walküre***]

[H] After Brünnhilde returns the ring and commits suicide, the Rhine overflows its banks and this location bursts into flames. In *Das Rheingold*, Wotan hires Fasolt and Fafner to build this location.

ANSWER: **Valhalla**

<Morales — Other Fine Arts>

5T. **It’s not the clarinet, but the first movement of an A major Mozart concerto for this instrument has the tempo marking *allegro aperto* outside of a short *adagio* recitative. Five soft timpani beats open the orchestral introduction to Beethoven’s concerto for this instrument. The “Turkish” concerto is the last of Mozart’s five concertos for this instrument, and Beethoven’s (\*) *Spring Sonata* in F major and *Kreutzer Sonata* in A major are for this instrument and piano. One virtuoso player of this instrument was rumored to have sold his soul to the devil. Niccolò Paganini wrote 24 caprices for this instrument. For 10 points, name this instrument, the highest-pitched string instrument in an orchestra.**

ANSWER: **violin**

<Rao — Auditory Fine Arts>

5B. In one painting, men are depicted wearing this specific article of clothing and raining from the sky. For 10 points each:

[H] Name this piece of clothing depicted on every person in *Golconda*. This specific article of clothing also titles a work containing a man whose face is eclipsed by a white bird.

ANSWER: **bowler hats** [or *Man in a **Bowler Hat***; prompt on **hats**]

[E] This Belgian surrealist painted *Golconda* and *Man in a Bowler Hat*. Another of his works depicting a bowler hat depicts a large green apple in the foreground and is entitled *Son of Man*.

ANSWER: René (François Ghislain) **Magritte**

[M] Two of Magritte’s works entitled *The Human Condition* feature a single white line that gives evidence of one of these things blending into the background. One of those works depicts a tree-filled scene and the other depicts a beach.

ANSWER: **paintings** [accept equivalent answers such as **canvases** or **artworks**]

<Morales — Visual Fine Arts>

6T. **Yale historian Donald Kagan wrote a four-volume history of this conflict. One work documenting this conflict stated that people go to war because of “fear, honor, and interest.” During this conflict, a revolt of the people of Mytilene led to a debate between Cleon and Diodotus about whether to kill all the residents of the island. An account of this conflict includes the ultimatum of “the strong do what they can and the (\*) weak suffer what they must” as part of the Melian Dialogue. That account of this conflict extensively incorporated long speeches such as a funeral oration delivered by Pericles. Thucydides wrote a *History of*, for 10 points, what ancient Greek conflict between Athens and Sparta?**

ANSWER: **Peloponnesian** War [accept *History of the **Peloponnesian** War*; accept *The Outbreak of the **Peloponnesian** War*]

<Kulkarni — Other History>

6B. The term “standard candle” describes how some of these astronomical events have historically been used to measure how far away distant galaxies are. For 10 points each:

[E] Name these massive explosions generated by dying stars. These events can be classified as Type I or Type II based on the Minkowski-Zwicky system and occur when stars run out of fuel and collapse under their own gravity.

ANSWER: **supernovae** [accept Type I **supernovae** or Type II **supernovae**]

[M] Type Ia [one-A] supernovae involve one of these objects that exceeds the Chandrasekhar limit. During that kind of supernova, which occurs in binary systems, this object absorbs mass from its companion.

ANSWER: **white dwarf** [prompt on **star** or **dwarf**]

[H] The distinct presence of this element’s absorption line in an emission spectrum differentiates Type Ia [one-A] supernovae from Type Ib [one-B] and Type Ic [one-C]. Following oxygen and neon, the burning of this element is the last stage before a star runs out of fuel.

ANSWER: **silicon** [or **Si**]

<Xie — Other Science>

7T. **This concept is referenced in one work by a U-shaped curve that allows babies and the elderly the most freedom. It’s not tragedy, but one work compares Apollonian and Dionysian versions of this concept and describes it as “personality writ large.” The Zuni, Dobu, and Kwakiutl civilizations are described in that book titled for *Patterns of (\*) [this concept]*.** In *The Chrysanthemum and the Sword*, Ruth Benedict used film clips from Japan to contrast this concept’s “shame” and “guilt” types. Being forced to quickly adapt to a new type of this concept may cause its namesake “shock.” For 10 points, name this concept that characterizes a group of people based on shared customs, norms, and art.

ANSWER: **culture** [accept shame **culture** or guilt **culture** or *Patterns of **Culture***]

<Morales — Social Science>

7B. Members of this ethnicity in Alto Perú clashed with the Vicuñas over the silver mines at Potosí. For 10 points each:

[H] Name this ethnicity. Whalers of this ethnicity were massacred in Iceland in 1615, and Tomás de Zumalacárregui, a general of this ethnicity, led the *aduaneros* during the First Carlist War.

ANSWER: **Basques** [or **euskaldunak**; accept **vascos**]

[M] Basque autonomy was ignored when one of these documents named for Cádiz was instituted in 1812. The 1812 document of this type served as the basis for another document of this type in 1837 that was drafted following a liberal victory in the Carlist Wars.

ANSWER: Spanish **constitution** [accept **Constitution** of Cádiz or Political **Constitution** of the Spanish Monarchy or **Constitution** of 1837]

[E] The Carlist Wars occurred between traditional monarchists and constitutional monarchists in this modern-day country. Most Basque people live in this country whose capital is Madrid.

ANSWER: Kingdom of **Spain** [or Reino de **España**]

<Kulkarni / Rao — European History>

8T. **In Bernardine Evaristo’s novel *Girl, Woman, Other*, Amma describes her single friends with high standards as having “Looking For [a person with this surname] Syndrome.” In one book, an author with this surname claimed to have read Foucault and Virginia Woolf to impress an “ethereal bisexual.” *A Promised Land and Dreams From (\*) My Father* were written by an author with this surname, as was a 2018 memoir that discussed the creation of the Let’s Move! initiative.** For 10 points, give this surname of the author of *Becoming*, Michelle, and her husband, Barack.

ANSWER: **Obama** [accept Michelle **Obama** or Barack **Obama**]

<Delot-Vilain — Other Literature>

8B. This author’s story “Bezhin Lea” was the basis for Sergei Eisenstein’s propaganda film *Bezhin Meadow*. For 10 points each:

[M] Name this author, who depicted the life of a Russian literary archetype in *The Diary of a Superfluous Man* and described Arkady Kirsanov’s relationship with the nihilist Bazarov in *Fathers and Sons*.

ANSWER: Ivan **Turgenev**

[H] Turgenev wrote this collection, which includes the story of the servant Lukeria succumbing to a digestive disorder, “Living Relic,” and the tale of two peasants working for a landowner named Polutykin, “Khor and Kalinych.”

ANSWER: *A **Sportsman’s Sketches*** [accept *A **Sportsman’s Notebook*** or *The **Hunting Sketches*** or ***Sketches from a Hunter’s Album***]

[E] Many stories in *A Sportsman’s Sketches* were based on Turgenev’s time hunting at his mother’s estate, where he learned about serfs forced to take up this occupation. In “Bezhin Lea,” Turgenev sets the scene by noting that “[i]t is for such weather that [a person with this occupation] longs, for harvesting his wheat.”

ANSWER: **farmer** [accept word forms like **farming**]

<Ezriev — European Literature>

9T. **This quantity is constant when a gas is adiabatically forced through a valve. The negative of this quantity is divided by temperature-squared in the Gibbs-Helmholtz equation. For an ideal gas, the change in this quantity is equal to the constant-pressure heat capacity times the change in temperature. In a constant pressure process, this quantity is equal to the change in (\*) heat.** This quantity is defined as the sum of internal energy and the pressure-volume product of a system. The fact that this quantity is a state function is given by Hess's law. For 10 points, name this quantity symbolized H that represents the total heat content of a system.

ANSWER: **enthalpy** [prompt on H until it is mentioned]

<Ye — Chemistry>

9B. Greek mythology is filled with great parents. For 10 points each, answer these questions about some stunning role models:

[E] Name this man who cooked and fed his son, Pelops, to the gods. His punishment in Tartarus was never being able to eat or drink, despite having fruit and water just out of reach.

ANSWER: **Tantalus**

[M] This descendent of Tantalus sacrificed his daughter, Iphigenia, in order to set for Troy. Upon his return home, he was murdered by his vengeful wife Clytemnestra.

ANSWER: **Agamemnon**

[H] This man casted his daughter, Danaë, and her newborn son out to sea to die. That grandson, Perseus, later accidentally killed this man with a discus.

ANSWER: **Acrisius**

<Yu — Mythology>

10T. **Taddeo Gaddi painted this scene under the Tree of Life in a polyptych for the Santa Croce Basilica. A later renamed painting intended to replace Titian's painting of this scene contains three arches and was painted by Paolo Veronese. One depiction of this scene illuminated by a single lamp in the top left was created from a diagonal perspective by (\*) Tintoretto.** A famous depiction of this scene features Judas holding a bag of silver and knocking over a salt cellar as the central figure spreads his arms next to John. For 10 points, name this scene which Leonardo da Vinci painted with Jesus at the center of a table for a meal with his disciples.

ANSWER: **Last Supper**

<Morales — Visual Fine Arts>

10B. For 10 points each, answer the following about the chemistry of serine:

[M] Serine is one of these compounds that contain an NH<sub>2</sub> [N-H-two] and COOH [C-O-O-H] group. These compounds are linked together to form a class of biological polymers.

ANSWER: **amino acids**

[E] Serine contains an OH [O-H] group as its functional group, thus also making it this kind of organic compound. Ethanol and isopropanol are common examples of these compounds found in wine and cleaning solution, respectively.

ANSWER: **alcohols**

[H] Unusually, this many molecules of serine can form a stable cluster complex. The standard form of sulfur is a molecule containing this many sulfur atoms.

ANSWER: **eight** [accept serine **octamer** clusters]

<Tran / Ye — Chemistry>

11T. **One side in this war distributed a set of playing cards to its soldiers containing the names and faces of the other side's "Most Wanted." Soldiers on one side in this conflict searched for the other side's leader in Operation Red Dawn before finding that leader hiding in a so-called "spider hole." To garner support for this war, a representative of one side held up a vial of (\*) anthrax at the United Nations. The end of major combat operations in this war was announced in front of a banner reading "mission accomplished." This war was declared under the premise of eliminating a country's weapons of mass destruction program.** For 10 points, name this 2003 to 2011 war fought against a country led by Saddam Hussein.

ANSWER: **Iraq** War [or **Second** Persian **Gulf** War; accept answers indicating a U.S. invasion of **Iraq**; do not accept or prompt on "Gulf War"]

<Rao — American History>

11B. For 10 points each, answer the following about the Renaissance composer Thomas Tallis:

[H] Tallis's most commonly performed piece is a 40-part piece of this type titled "Spem in alium." These polyphonic choral pieces were sacred in nature, in contrast with the secular madrigals.

ANSWER: **motets**

[M] The third in a set of nine songs by Tallis, "Why fum' th in fight?," was used by this composer in *Fantasia on a Theme by Thomas Tallis*. This composer switched between Dorian and Aeolian modes in a piece for solo violin and piano titled after a bird.

ANSWER: Ralph [RAFE] **Vaughan** [VAWN] **Williams** [do not accept or prompt on "Williams"]

[E] Despite being a member of this religious group, Thomas Tallis served as a court musician for Henry VIII and Elizabeth I. The original words to Tallis's motet "Spem in alium" were originally written in Latin, the liturgical language of this religious group.

ANSWER: **Catholicism** [accept equivalents; prompt on **church**]

<Rao — Auditory Fine Arts>

12T. **This author wrote a poem about a group that doesn't care if "the moon rattles like a fragment of angry candy" in "the Cambridge ladies who live in furnished souls." One of this author's title characters is described as "being to all intents/a corpse." This author asks of Mister Death, "how do you like your blue eyed boy[?]" in the poem (\*) "Buffalo Bill's." In a poem by this author of "i sing of Olaf glad and big," the order of the seasons and the words "sun moon stars rain" are repeatedly scrambled. For 10 points, name this poet of "anyone lived in a pretty how town" known for his unusual capitalization.**

ANSWER: e e **cummings** [or Edward Estlin **Cummings**]

<Morales — American Literature>

12B. The quantization of this property was first observed in silver atoms in the Stern-Gerlach experiment. For 10 points each:

[E] Name this intrinsic angular momentum which, for electrons, is said to be "up" or "down." For elementary particles, the value of this quantity is an integer multiple of one-half times the reduced Planck constant.

ANSWER: **spin**

[M] One of the earliest pieces of evidence for spin was found when this element's 656.3 nm alpha spectral line was observed to be two separate, closely spaced lines. That spectral line is the longest wavelength line in this element's Balmer series.

ANSWER: **hydrogen** [or **H** or **H-alpha** line]

[H] The splitting of the H-alpha line, first discovered by Michelson and Morley, was given this name by Arnold Sommerfeld. A constant with the same name describing the magnitude of that splitting, equal to the ratio of a ground-state electron's velocity to the speed of light, is approximately 1/137.

ANSWER: **fine-structure** [or **fine-structure** constant; do not accept or prompt on "hyperfine-structure"]

<Rao — Physics>

13T. **The action of this organ is portrayed by the Wiggers diagram, and its homeostasis is regulated by the baroreflex and the Frank-Starling Law. It's not the kidney, but ACE inhibitors can treat acute failure of this organ, which secretes the natriuretic peptides ANP and BNP. Impulses to this organ's apex are transmitted through bundle branches and Purkinje fibers from the (\*) SA node. Blood leaving this organ's right ventricle is transported through the pulmonary artery to the lungs. The activity of this organ is visualized on an EKG. For 10 points, name this organ that pumps blood to the rest of the body.**

ANSWER: **heart**

<Xie — Biology>

13B. In one speech, this leader declared their devotion to the "ideal of a democratic and free society in which all persons will live together in harmony and with equal opportunities." For 10 points each:

[E] Name this leader who delivered the "I am Prepared to Die" speech during the Rivonia trial. After being freed from prison, this leader became the first Black head of state of South Africa in 1994.

ANSWER: Nelson Rolihlahla **Mandela**

[M] Nelson Mandela was married to this woman, who carried on his activist work while he was in prison. This woman was accused of kidnapping and torturing South African government collaborators through her security detail, the Mandela United Football Club.

ANSWER: **Winnie** Madikizela-Mandela [prompt on **Mandela**]

[H] Most of Winnie Mandela's unsavory activities were focused in this township near Johannesburg. Students protesting racist policies were fired on by police in a 1976 "uprising" in this township.

ANSWER: **Soweto** [accept **Soweto** uprising]

<Gedajlovic — World History>

14T. In poor Vaishnav communities, a variant of these rituals in which bead garlands are exchanged called the kanthi-badal may be requested. The Bengali variant of these events often features the Mala badal, during which flower garlands are exchanged to symbolize the first meeting of its subjects. The Panigrahana during this event involves two participants taking (\*) seven steps around a fire while holding hands or linking their garments. During the Kanyadana ceremony in these events, the daughter is given away by her father. For 10 points, name these events where couples often say vows and exchange rings.

ANSWER: Hindu weddings [or Hindu marriages, accept other obvious equivalents]

<Morales — Religion>

14B. The title of this novel comes from a film so entertaining, those who see it lose interest in doing anything else and die. For 10 points each:

[H] Name this novel about the Incandenza family and the Enfield Tennis Academy.

ANSWER: Infinite Jest

[M] In *Infinite Jest*, these periods of time are subsidized by corporate sponsors, leading to these periods of time of the “Depend Adult Undergarment” and “Trial-Size Dove Bar.” In *Brave New World*, these periods of time are measured “After Ford.”

ANSWER: years [accept Year of the Depend Adult Undergarment or Year of the Trial-Size Dove Bar or Years After Ford]

[E] A sub-plot of *Infinite Jest* focuses on the Québécois Wheelchair Assassins, who come from this country. In *Infinite Jest*, this country, the United States, and Mexico join together to form the Organization of North American Nations.

ANSWER: Canada

<Ezrielev — American Literature>

15T. In 2019, this person’s mother, opera singer Malena Ernman, publicly announced that she was taking part in the “flight shame” movement. This person started the Fridays for Future movement. Donald Trump opined that this person should watch a “good old fashioned movie with a friend” and work on their (\*) “anger management problem.” At a speech given at a 2019 UN Summit, this person exclaimed “How dare you!” This activist travelled to that summit on a carbon-neutral yacht. This activist sat outside her country’s Parliament for three weeks while holding a sign that said “school strike for climate.” For 10 points, name this Swedish climate change activist.

ANSWER: Greta (Tintin Eleonora Ernman) Thunberg

<Rao — Current Events>

15B. This man wrote a book named after him that features anecdotes and stories from his life as a sage during the Warring States period. For 10 points each:

[H] Name this man who recorded a dream in which he could not tell if he was dreaming of being a butterfly or if the butterfly was dreaming of being him.

ANSWER: Zhuangzi [or Zhuang Zhou, accept Master Zhuang]

[E] *Zhuangzi*, the book, and the *Tao Te Ching* are foundational documents for this Chinese philosophy that believes in the harmony of yin and yang. This philosophy was founded by Lao Tzu.

ANSWER: Daoism [or Taoism]

[M] This Daoist concept is directly translated to mean “doing nothing” but is more often interpreted as “effortless action.”

ANSWER: wu wei

<Morales — Philosophy>

16T. Before the action of this play, a character becomes frustrated with her cousin, who was “rather pathetic” and gurgled while he drank, and seduces his wife Florence. A character in this play throws her child off a balcony into the sea, causing the suicide of her lover Roger. Another character in this play meets a valet with no eyelids and strokes a (\*) bronze mantelpiece in front of a fireplace. In this play, a vain Parisian woman and a postal clerk are stuck in a Second Empire-style room together, before Garcin comes to the realization that they are torturing each other because “Hell is—other people!” For 10 points, name this existentialist play by Jean-Paul Sartre.

ANSWER: No Exit [or Huis Clos]

<Ezrielev — European Literature>

16B. Answer the following about cherries in pop music. For 10 points each:

[M] This singer addressed his breakup with model Camille Rowe on the song “Cherry,” which was included on his 2019 album *Fine Line*.

ANSWER: Harry **Styles**

[E] Singer and dancer Choerry is a member of Loona, a girl group in this genre. Other groups in this genre include Blackpink and BTS.

ANSWER: **K-pop** [or **Korean pop**]

[H] This Japanese-British pop star recorded the pansexual anthem “Cherry.” She included songs like “XS” and “Comme des Garçons” on her 2020 self-titled debut album.

ANSWER: Rina **Sawayama**

<Rynearson — Pop Culture Music>

17T. **Jukurra-jukurra chases the seven sisters across the sky in this people’s myth system. These people believed that Yhi, the goddess of light, slept until the call of the sky god Baiame woke her. In these people’s mythology, bunyips are creatures who live in swamps and waterholes. These people are connected to the land by navigational (\*) “songlines” that creator spirits supposedly traversed. One of those creator spirits is the Rainbow Serpent, who made formations in the land while slithering across it in the Dreamtime. These people’s “Emu in the sky” constellation may stem from their belief in the emu as creator spirits. For 10 points, name these people who are native to Australia.**

ANSWER: Australian **Aborigines** [or **Aboriginal** Australians]

<Morales — Mythology>

17B. The Twelvers, so named because they believe in twelve imams, make up 85% of all Muslims in this sect. For 10 points each:

[E] Name this second-largest Islamic sect, outnumbered only by the Sunni.

ANSWER: **Shia** Islam [or **Shi’ism**]

[M] Shi’ites believe in this man as the first imam, while Sunnis believe in him as the fourth rightly guided caliph. This son-in-law of Muhammad fathered Husayn with Fatimah.

ANSWER: **Ali** ibn Abi Talib [or **Ali** bin Abi Talib]

[H] This religion was originally a subset of Islaimi Shia Islam. This religion, whose adherents live mainly in Israel and Lebanon, reveres the Fatimid caliph al-Hakim.

ANSWER: **Druze**

<Morales — Religion>

18T. **This architect designed a building whose entrance is marked by Coosje van Bruggen and Claes Oldenburg’s sculpture *Giant Binoculars*. It’s not I. M. Pei, but this architect was sued for leaks that resulted from alleged flaws in his design for MIT’s Stata Center. With Vlado Milunić, this architect designed a building nicknamed for (\*) Fred Astaire and Ginger Rogers. This architect designed a building on the banks of the Nervion River that uses many curved sheets of titanium, as well as the home of the Los Angeles Philharmonic. The Dancing House and Walt Disney Concert Hall are by, for 10 points, what Canadian-American architect of the Bilbao Guggenheim Museum?**

ANSWER: Frank **Gehry** [or Frank Owen **Goldberg**]

<Carvell — Other Fine Arts>

18B. A ballroom dance floor in this play is described as an idealized “world without collisions.” For 10 points each:

[H] Name this play set in a Port Elizabeth tearoom. After Sam tells this play’s title character to not speak ill of his father, an alcoholic World War I veteran, that title character spits in Sam’s face.

ANSWER: **“Master Harold” ...and the Boys**

[E] “*Master Harold*” ...and the Boys is a play by Athol Fugard, an author from this country. The play takes place during this country’s apartheid era.

ANSWER: **South Africa** [or Republic of **South Africa** or **RSA**]

[M] At the end of “*Master Harold*” ...and the Boys, Sam and Hally use one of these objects together on a rainy day. In a Khaled Hosseini novel, Hassan acts as a “runner” for Amir while he uses these objects.

ANSWER: **kites** [accept *The **Kite** Runner*]

<Rao — World Literature>



19T. **The smallest finite field contains this number of elements. The order of the symmetric group is always this number times the order of the alternating group. A prime  $p$  is named for Sophie Germain if one greater than this number times  $p$  is also prime. Values divisible by this number are then divided by this number in the Collatz conjecture. Polynomials whose degree is this number have a discriminant of  $(*) b^2 - 4ac$ . Primes that are one less than powers of this number are named for Mersenne. Pairs of primes whose difference is this number are called “twins.”** For 10 points, name this smallest prime number whose multiples are called even.

ANSWER: **two**

<Tran — Other Science>

19B. Ian Paisley led a political party representing this group for 37 years. For 10 points each:

[H] Name this group who oppose the Nationalists in the politics of Northern Ireland. This group is named for their allegiance to the United Kingdom.

ANSWER: **Unionists** [or Democratic **Unionist** Party]

[M] One of the highlights of Paisley’s leadership in Northern Ireland was taking part in negotiations for this 1998 treaty. This treaty, which is named for a Christian holiday, ended the violent period known as “The Troubles.”

ANSWER: **Good Friday** Agreement [accept, but do NOT reveal **Belfast** Agreement]

[E] The Democratic Unionist Party has long been the majority party in Northern Ireland’s parliament, which convenes at Stormont Castle in this capital city.

ANSWER: **Belfast** [or **Béal Feirste**]

<Fuhrer — Other History>

20T. **It’s not South Korea, but in a “bloodless correction” this country’s former president was placed under house arrest in the Blue Roof Mansion in 2017. This country’s North Korean-trained Fifth Brigade massacred Ndebele civilians in an event known as the Gukurahundi. This country gained independence in the Lancaster House Agreement which ended the Bush War it fought against forces loyal to Ian Smith. This country has been ruled since independence by the  $(*)$  ZANU-PF party. In November of 2008 the inflation rate of this country’s currency was estimated at 80 billion percent month by month.** For 10 points, name this country, formerly the British colony of Rhodesia, that was led by president Robert Mugabe for 30 years.

ANSWER: Republic of **Zimbabwe** [do not accept or prompt on “Rhodesia”] <Gedajlovic — World History>

20B. This region has the highest concentration of people with Finnish ancestry outside of Europe, a result of this regions’ 19th century mining boom. For 10 points each:

[M] Name this region, whose largest cities are Marquette and Sault Ste. Marie. This region has a land border with Wisconsin, but not the rest of the state it’s part of.

ANSWER: The **Upper Peninsula** of Michigan [or the **UP** or **Upper Michigan**, do not accept or prompt on “Lower Peninsula”]

[E] The Upper Peninsula of Michigan is bounded by three Great Lakes: Lake Huron, Lake Michigan, and this lake, the largest and northwesternmost of the Great Lakes.

ANSWER: Lake **Superior**

[H] *Description acceptable.* This line runs through the Upper Peninsula, but not the rest of Michigan. Elsewhere, this line splits the middle of Lake Michigan but diverts to carve out Gary and Evansville from the rest of Indiana.

ANSWER: the **boundary** between **Eastern** and **Central** Time Zones [accept any answer indicating the line that **divides Eastern and Central** Time Zones; prompt on partial answers or answers that name only one time zone; accept **ET** or **EST** or **EDT** in place of “Eastern Time Zone” and **CT** or **CST** or **CDT** in place of “Central Time Zone”] <Zhang — Geography>