

## Regular Academic Fall Tournament III

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### Packet 12

1T. In a memoir, Salman Rushdie describes adopting this first name after hiding for a decade due to the publication of his novel *The Satanic Verses*. An author with this first name created the character Charles Gould, who owns a silver-mining business in the fictional republic of Costaguana. A character with this first name befriends the painter Titorelli and hears the parable “Before The (\*) Law.” An author with this first name wrote a novella where Marlowe travels along the Congo to find Mr. Kurtz, who dies while exclaiming, “The horror! The horror!” For 10 points, name this first name of the protagonist of *The Trial* and the author of *Nostramo* and *Heart of Darkness*.

ANSWER: **Joseph** [accept **Joseph** Anton or **Josef** K. or **Joseph** Conrad]

<Ezrielev — World Literature>

1B. For 10 points each, answer the following about the history of McCarthyism:

[E] The House Un-American Activities Committee, one of the main instruments of McCarthyism, called this baseball player to testify against popular actor and singer Paul Robeson. This Dodgers player wore number 42 and was the first Black man to play in MLB.

ANSWER: Jackie **Robinson** [or Jack Roosevelt **Robinson**]

[M] After McCarthy turned his attention to communists in this institution, this institution accused him of improperly using his influence to gain special privileges for his friend David Schine. The ensuing hearings, which were named for McCarthy and this institution, killed McCarthy’s career despite his acquittal.

ANSWER: United States **Army** [accept **Army**-McCarthy Hearings]

[H] During the hearings, McCarthy accused this Army lawyer of being a communist, to which this lawyer delivered the rebuke “Have you no sense of decency, sir[?]”

ANSWER: Joseph (Nye) **Welch**

<Kaung — American History>

2T. One thinker from this school imagined a race of creatures that perceive pain as the “stimulation of C-fibers” in his thought experiment on the Antipodeans. Another thinker from this school proposed an alternative to the correspondence theory of truth in a work that outlines a maxim for obtaining “clearness of apprehension.” This school, whose “neo” variety was championed by Richard Rorty, saw a thinker ask whether a man goes around a (\*) squirrel on a tree in a lecture. A thinker from this school distinguished between “tough” and “tender minded” people in a book named for it. For 10 points, name this American school of thought seeks to consider actions by their practical effects, founded by C.S Pierce and William James.

ANSWER: **pragmatism** [accept neo-**pragmatism**]

<N. Zhang — Philosophy>

2B. Tristan Tzara wrote in this art movement's 1918 manifesto that its name "means nothing." For 10 points each:

[M] Name this avant-garde movement that developed as a criticism of capitalism following World War I. The ready-mades of Marcel Duchamp, a member of this movement, led to this movement being called the first "anti-art" movement.

ANSWER: **Dadaism**

[E] The Dada artist Man Ray worked primarily in this medium, such as for the 1922 artwork *The Kiss*. Some of Ray's works in this medium, a portmanteau of Ray's name and this medium, were done using light-sensitive paper rather than the usual camera.

ANSWER: **photographs** [or **photograms**; prompt on **rayographs**]

[H] Man Ray's 1932 photograph *Tears* shows a woman crying tears made of this material. Duchamp's *The Bride Stripped Bare by Her Bachelors* is subtitled for and contains two large panels of this material.

ANSWER: **glass** [accept **Glass** *Tears* or *The Bride Stripped Bare by Her Bachelors, Even (The Large Glass)*]

<Rao — Visual Fine Arts>

3T. A king of this empire sponsored the dowries and travel expenses of 800 women called the "King's Daughters" to settle in part of its territory. One writer called some of this empire's territory a "few acres of snow," which it eventually ceded after military losses to James Wolfe and Jeffrey Amherst. In the Great Expulsion, descendants of people from this empire were expelled from the Acadian Peninsula. Native Americans intermarried with explorers from this empire called (\*) "runners of the woods;" their descendants are called the Métis. While claiming territory for this empire, Jacques Cartier discovered an island on the St. Lawrence River that Samuel de Champlain later named Montréal. For 10 points, name this empire that held territory including Louisiana and Quebec.

ANSWER: **France** [or First **French** Empire]

<Sarma — European History>

3B. A poem about this figure describes the "sleepless hours who watch me as I lie," and the "broad moonlight of the sky." For 10 points each:

[H] Name this godly addressee of a hymn by Percy Shelley. An Austrian poet wrote a poem titled for a statue of this figure that ends "You must change your life."

ANSWER: **Apollo** [accept "**Hymn to Apollo**" or "**Archaic Torso of Apollo**"]

[M] *Archaic Torso of Apollo* was written by this German language poet who asked "who if I cried out, would hear me among the angelic orders?" in his *Duino Elegies*.

ANSWER: Rainier Maria **Rilke**

[E] Rilke addressed a collection of these writings "to a young poet." Epistolary novels such as *The Color Purple* are composed of these writings.

ANSWER: **letters**

<Gedajlovic — European Literature>

4T. Aurora pulls Apollo's chariot through the sky while this action is performed next to a personification of Time in a painting by Nicolas Poussin. Pierre-Auguste Renoir painted this action at *Bougival* and at *the Moulin de la Galette*. A scene of this action appearing in the background of *The Joy of Life* is similar to a later painting of this action by the same artist. Five (\*) red figures against a blue background hold hands and perform this action in an Henri Matisse painting that is paired with *Music*. One artist painted many classes of people learning this action, including one at the Paris Opera. For 10 points, name this action depicted in Edgar Degas's paintings of ballerinas.

ANSWER: **dancing** [accept word forms like **dancer**; accept *A Dance to the Music of Time* or *Dance at Bougival* or *Dance at the Moulin de la Galette* or *The Dance*]

<Carvell — Visual Fine Arts>

4B. For 10 points each, answer these questions about Exenatide, a drug synthesized from gila monster saliva:

[H] Exenatide targets this cluster of pancreatic cells whose function is inhibited by somatostatin. These pancreatic cells include the glucagon-producing alpha cells and insulin-producing beta cells.

ANSWER: **islets** of Langerhans [or pancreatic **islets**]

[E] By increasing insulin production, Exenatide treats the Type 2 variety of this group of metabolic disorders, in which the absence of insulin signalling leads to abnormally high blood sugar levels. Obesity is thought to be a significant risk factor for this disorder.

ANSWER: **diabetes** [accept diabetes mellitus **Type 2 Diabetes** or **DM** or adult-onset **diabetes**]

[M] One potential side effect of Exenatide is the development of tumors in this organ, which is targeted by TSH and produces the hormones T3 and T4. A condition where this organ grows abnormally large is known as goiter.

ANSWER: **thyroid**

<Xie — Biology>

5T. **This state fought the Honey War against its northern neighbor while it was governed by Lilburn Boggs. The Pendergast political machine primarily operated in this state's largest city. This state's Executive Order 44 forced Joseph Smith and the Mormons to move to Nauvoo, Illinois. Thomas Jefferson referred to a piece of legislation (\*) named for this state as the "knell of the Union."** Prior to being Franklin Roosevelt's vice president, Harry Truman was a Senator from this state. Maine was separated from Massachusetts and joined the union to balance out this state's entry into the union as a slave state. For 10 points, name this state at the center of an 1820 "Compromise."

ANSWER: **Missouri**

<Rao / Andert — American History>

5B. This form of Hinduism venerates the divine feminine energy of the mother goddess Mahadevi. For 10 points each:

[H] Name this Hindu denomination, many of whom worship Tripura Sundari or aspects of the Tridevi.

ANSWER: **Shaktism**

[M] The Tridevi consists of Saraswati, Parvati, and this other Hindu goddess. This goddess of wealth is the consort of Vishnu and patron of the Diwali festival.

ANSWER: **Lakshmi**

[E] Unlike the Lakshmi and Durga pujas, the Saraswati puja also commemorates the arrival of this season. Practitioners often dress in yellow to commemorate the arrival of this season's budding plants after the bare winter.

ANSWER: **spring** [accept **vasanta**]

<Morales — Religion>

6T. **George Olah observed that one of these substances has the ability to stabilize bulky carbocations. One of these substances dissolved in dry ether, such as iron (III) chloride, is required to catalyze electrophilic substitution on a benzene ring. An organic type of these substances contains a hydroxyl group and oxygen atom bonded to a terminal carbon. Because of its vacant p-orbital, (\*) boron trifluoride is an example of the Lewis definition of these substances but not the Bronsted-Lowry definition.** HCl [H-C-L] and H<sub>2</sub>SO<sub>4</sub> [H-two-S-O-four] are strong examples of these substances. For 10 points, name these substances that are contrasted with bases.

ANSWER: **acids** [accept magic **acid** or Lewis **acids** or carboxylic **acids** or Bronsted-Lowry **acids**]

<Tegulla — Chemistry>

6B. This show's fourth season is often referred to as the "gas leak year" due to the temporary firing of its main creator. For 10 points each:

[M] Name this television show about a study group at a certain type of educational institution. A recent resurgence in this show's popularity has led to support for its catchphrase "six seasons and a movie."

ANSWER: **Community**

[E] This actor played Troy Barnes on Community before leaving midway through season 5. In 2018, this actor released the rap song "This is America" to address gun violence in the U.S.

ANSWER: Donald **Glover** [or Childish **Gambino**]

[H] In an end credit scene from the first season of Community, Troy and Abed perform a rap based on this Spanish phrase. This phrase is often satirized in television due to its extreme prevalence relative to its actual meaning.

ANSWER: "**¿Dónde está la biblioteca?**" [accept "**Where is the library?**"]

<Ye — Pop Culture>

7T. **Martina Navratilova and John McEnroe interrupted a tribute to a tennis player from this country due to her opposition to same-sex marriage. That player is referred to as this country's "Amazon." The female player currently ranked No. 1 in the world in singles is from this country, as is the only player to complete a Grand Slam twice. Margaret Court, Rod (\*) Laver, and Ash Barty are from this country. It's not the United States, but this country's open is played on hard court and is the first Grand Slam tournament to occur in the calendar year due to the timing of its summer. For 10 points, name this country whose "Open" is held in Melbourne Park.**

ANSWER: **Australia** [or Commonwealth of **Australia**; accept **Australian** Open or **Aussie** Amazon]

<Ezrielev — Pop Culture>

7B. The Etchmiadzin cathedral in this country is thought to be the oldest Christian cathedral in the world. For 10 points each:

[H] Name this modern-day country, which became the first country to adopt Christianity after Tiridates III was converted by St. Gregory the Illuminator.

ANSWER: Republic of **Armenia**

[M] A polity centered around this city adopted Christianity after Vladimir the Great allied with Basil II. Yaroslav the Wise is said to have built this city's Golden Gate, on which Boleslaw the Brave chipped his sword after conquering this city.

ANSWER: **Kiev** [accept **Kievan Rus**]

[E] Almost all of this nation's religious population is part of its eponymous branch of Orthodox Christianity. The Parthenon, found in its city of Athens, was used as a cathedral by the Byzantine Empire in this country.

ANSWER: **Greece** [accept **Hellenic Republic**]

<Chakraborty — European History>

8T. **At this event, an argument between two thieves ended with Dismas asking the central figure to remember him. Officers at this event cast lots for the clothes of the central figure. In Galatians 2, Paul says that its central figure lives in him because he underwent this event with him. St. Thomas requested to see the (\*) wounds caused by this event due to doubt of the central figure's authenticity. After allowing this event to occur, Pontius Pilate washed his hands to remove his guilt. The crown of thorns and the "true cross" are artifacts from this legendary event. For 10 points, name this biblical event in which Jesus was nailed onto a cross.**

ANSWER: the **crucifixion** of Jesus Christ [prompt on **death of Jesus** or descriptions of Jesus being killed]

<Morales — Religion>

8B. Poisson's equation for electrostatics states that the Laplacian of this quantity is equal to negative charge density of epsilon-naught. For 10 points each:

[E] Name this quantity symbolized V. The value of this quantity for a circuit component is equal to the product of current and resistance according to Ohm's law.

ANSWER: **voltage** [or electric **potential** difference or scalar **potential** difference]

[H] Poisson's equation can be derived from Gauss's law by applying this operation to the gradient of electric potential. This operation, symbolized del-dot, vanishes for the magnetic field because monopoles do not exist.

ANSWER: **divergence** [prompt on **del-dot**]

[M] When the divergence of the electric field is this value, Poisson's equation reduces to Laplace's equation. Because conservative fields are irrotational, the curl of the gradient always evaluates to this value.

ANSWER: **zero** [accept **zero** vector]

<Ye — Physics>

9T. **An interval with this number is the topmost interval in the "So What" chord. Suspended chords omit the scale degree of this number. A chord in first inversion will have the scale degree of this number as its bass note. This many semitones separate all of the notes of a fully diminished chord. An interval of this number is called the mediant, and a key's (\*) relative minor can be found by going down this number of half-steps. There are this many flats in C minor and E-flat major. The solfege note "mi" represents the scale degree of this number, which is E in C major. For 10 points, how many notes are in a triad?**

ANSWER: **three** [accept word forms; accept major **third** or minor **third**]

<Sarma — Auditory Fine Arts>

9B. In this play, Walter claims that the instruction “eat your eggs” represents his wife’s attempts to keep him from achieving his goals. For 10 points each:

[M] Name this play in which characters fight over an insurance check to realize their dreams. Karl Lindner opposes the Younger family’s move to an all-white neighborhood in this play.

ANSWER: *A Raisin in the Sun*

[E] In *A Raisin in the Sun*, the Younger family moves to Clybourne Park in this Illinois city. A Carl Sandburg poem titled for this city calls it the “Hog Butcher for the World” and “Freight Handler to the Nation.”

ANSWER: Chicago

[H] Instead of buying a house, this member of the Younger family would rather have tuition money for medical school. This character dates the anti-assimilationist Joseph Asagai, who describes her straightening of her hair as “mutilation” and invites her to move to Nigeria with him.

ANSWER: Beneatha Younger [prompt on Younger] <Wu — American Literature>

10T. In 2020, this author's family apologized for this author's history of offending remarks, such as in a novel in which **Formula 86 turns a boy into a mouse. This author created Mary, who begs policemen to “please eat it” in order to erase evidence of a murder weapon in the short story “Lamb to the Slaughter.” The NAACP forced this author to change the origin of one group of characters that came from “darkest part of the African jungle;” those (\*) short laborers are met by characters including Augustus Gloop and Violet Beauregarde. Oompa-Loompas were created by, for 10 points, what author of *James and the Giant Peach* and *Charlie and the Chocolate Factory*?**

ANSWER: Roald Dahl

<F. Wang — American Literature>

10B. Although born in Belgium, the director of *Cléo from 5 to 7* spent most of her time in this country. For 10 points each:

[E] Name this European country, the home of Agnès Varda. The 1928 silent film *The Passion of Joan of Arc* was produced in this country where Jean-Luc Godard made *Breathless*.

ANSWER: France [or French Republic or Republique francaise]

[M] Godard and Varda were pioneers of this film movement of the 1950s that emphasized experimental filmmaking, decentralized plots, and improvised dialogue.

ANSWER: French New Wave [or La Nouvelle Vague]

[H] Along with Godard, this other director of *La Grande Illusion* and *The Rules of the Game* is often cited as among the greatest filmmakers of all time. This director also made *The Human Beast*, which is alternately called *Judas Was a Woman* in English.

ANSWER: Jean Renoir

<Weiner — Other Fine Arts>

11T. In one speech, this person vowed to “redeem [a] pledge, not wholly or in full measure, but very substantially.” A “jacket” named for this leader was worn by the James Bond villains Dr. No and Ernst Blofeld. This person’s birthday is celebrated as Children’s Day in this person’s home country. They’re not from Yugoslavia, but this person first suggested the idea of (\*) “Non-Alignment” that led to the founding of the Non-Aligned Movement. This leader gave the “Tryst with Destiny” speech on the night of their country’s independence. Both this leader’s grandson and daughter, Indira and Rajiv Gandhi, held a political office that this person was the first to hold. For 10 points, name this first prime minister of India.

ANSWER: Jawaharlal [juh-wuh-HAAR-lul] Nehru [accept Nehru jacket]

<Rao — World History>

11B. Crystal field theory predicts that coordination complexes with this geometry have d-orbitals split into t-sub-2g and e-sub-g orbitals. For 10 points each:

[M] Name this geometry possessed by sulfur hexafluoride, which contains six substituents all oriented 90 degrees away from one another.

ANSWER: octahedral molecular geometry

[E] The square planar geometry is similar to that of the octahedral geometry except that two substituents are replaced with these objects. VSEPR theory predicts that these objects maximally repel one another.

ANSWER: lone pairs [prompt on electron pairs]

[H] This geometry is possessed by molecules with five substituents. Replacing substituents in this geometry with lone pairs can form see-saw and t-shaped geometries.

ANSWER: trigonal bipyramidal molecular geometry [do not accept or prompt on “trigonal pyramidal”] <Ye — Chemistry>

12T. **Schlieren photography relies on constantly adjusting this phenomenon to image an object. Waves can become polarized during this phenomenon at the surface of a dielectric at a specific quantity equal to the arctangent of a ratio of two values named for this phenomenon. Non-cubic crystal structures often cause a (\*) “double” form of this phenomenon in which waves behave differently when acting in different directions, called birefringence. The sines of angles in this phenomenon are related to namesake “indices” of this phenomenon in Snell’s law. For 10 points, name this phenomenon in which light bends upon entering a new medium, contrasted with reflection.**

ANSWER: **refraction** [accept index of **refraction** or **refractive** index]

<Ye — Physics>

12B. For 10 points each, answer the following about American electoral history — as portrayed on Saturday Night Live:

[E] A SNL parody of a presidential debate in this election featured Darrell Hammond as Al Gore, who repeated the word “lockbox” nine times throughout the sketch. George W. Bush won this election after a protracted recount in Florida was ended by the Supreme Court.

ANSWER: Election of **2000**

[M] One of the most lasting SNL portrayals was Tina Fey’s caricature of this governor of Alaska. Fey’s quote “I can see Russia from my house” has often been misattributed to this running mate of John McCain.

ANSWER: Sarah (Louise) **Palin**

[H] One of the earliest impacts of SNL on politics was Chevy Chase’s portrayal of this president. This politician was ridiculed after tripping while disembarking from Air Force One on a trip to Vienna.

ANSWER: Gerald **Ford** [or Leslie Lynch **King**, Jr.] <Ah Now — Other History>

13T. **This author’s novel *Dance Dance Dance* concluded his Trilogy of the Rat. In a novel by this author, fish rain down from the sky after one of the protagonists kills Johnnie Walker, who was attempting to build a flute out of the souls of a certain type of animal. Another novel by this author centers on Toru Akada, whose (\*) cat and wife both go missing. In another work, this author created the mentally-handicapped Nakata, who has the ability to speak with cats. For 10 points, name this Japanese magical realist author of *The Wind-Up Bird Chronicle* and *Kafka on the Shore*.**

ANSWER: Haruki **Murakami**

<Rynearson — World Literature>

13B. For 10 points each, answer the following about characters from Greek mythology who transformed into swans.

[H] Cynus, a close companion of this man, turned into a swan out of grief over his death. Epaphus challenged this son of Helios to prove his godly heritage, which led to him requesting to drive the chariot of the sun.

ANSWER: **Phaethon**

[E] Another Cynus was a son of this god, whom this god changed into a swan to protect him from Heracles. This Greek god of war was the lover of Aphrodite.

ANSWER: **Ares**

[M] While Leda is usually said to be the mother of Helen of Troy, another myth states that this goddess actually gave birth to Helen in the form of a swan. Arrogant mortals were punished by this Greek goddess of revenge.

ANSWER: **Nemesis**

<An — Mythology>

14T. **A whisper during one of these events was the subject of a riddle that Vafthrudnir could not answer. During one of these events, Thor kicked the dwarf Littr into a fire. Thokk was the only one not to weep during one of these events. The giantess Hyrrokin was needed to move a giant ship during one dedicated to the most beautiful of all gods. One of these events took place after the blind god (\*) Hodr accidentally threw a spear made of mistletoe at his brother. During ancient Norse versions of these events, ships were sometimes ceremonially lit on fire and pushed out to sea. For 10 points, name these events, one of which took place to honor Baldr after his death.**

ANSWER: **funeral** [prompt on **death**, accept **funeral** of Baldr]

<An — Mythology>

14B. In one poem, the speaker responds that they are “gone up to [one of these places] to pray,” when asked about the whereabouts of “thy father and mother.” For 10 points each:

[E] Name these locations which hold many religious services.

ANSWER: **churches**

[H] “A little black thing among the snow” in this poem says that “they are gone up to the church to pray.” This poem from the collection *Songs of Innocence* depicts the speaker being “taught to sing the notes of woe.”

ANSWER: “The **Chimney Sweeper**”

[M] This author of “The Chimney Sweeper” mentions being “angry with [his] friend” at the start of his work “The Poison Tree.” This man asks “Dost thou know who made thee[?]” in his poem “The Lamb.”

ANSWER: William **Blake**

<Morales — Poetry>

15T. **One of these places in Virginia has a catenary curve for its ceiling and was used as a model for one later built in Taoyuan, Taiwan. Renzo Piano designed a section of the Kansai one of these places in Osaka, Japan that ended up being over a mile long. A former one of these locations in New York has a white roof similar to a bird’s wings and is named for (\*) TWA.**

Finnish-American architect Eero Saarinen designed a major part of one of these locations in Dulles, Virginia, as well as a hotel near one of these places named for John F. Kennedy that services New York. For 10 points, name these locations where passengers board airplanes.

ANSWER: **airports** [accept **airport** terminals]

<Morales — Other Fine Arts>

15B. After a December 2020 anti-vax rant referenced these animals, some individuals dressed up as these animals to get vaccinated. For 10 points each:

[H] Name these animals. In that rant, a far-right politician said that, if the COVID-19 vaccine gave people superpowers or turned them into these animals, Pfizer could not be held responsible.

ANSWER: **crocodiles** [accept **alligators** or **jacaré**]

[M] This South American politician suggested that the vaccine could turn people into crocodiles soon after he himself contracted the coronavirus in 2020. This politician was elected to his current office amidst Operation Car Wash.

ANSWER: Jair **Bolsonaro**

[E] Bolsonaro is the president of this large South American country. During the pandemic, Bolsonaro's economic policies have increased deforestation of the Amazon rainforest in this country.

ANSWER: **Brazil** [or Federative Republic of **Brazil** or República Federativa do **Brasil**]

<Miles — Current Events>

16T. **This element's namesake cascade describes its stepwise transport to tissues, where its action can be disrupted by cyanide poisoning. A molecule that binds to this element can change between T and R states, a transformation inhibited by the substitution of valine for glutamic acid. It's not carbon dioxide, but the change in saturation of this element is described by the Haldane and (\*) Bohr shifts. The alveolar-arterial gradient relates this element's concentration in the namesake regions. It's not iron, but the absence of this element can result in anemia and lactic acid fermentation. For 10 points, name this element absorbed by the lungs for use in aerobic respiration.**

ANSWER: **oxygen** [or **O<sub>2</sub>**]

<Xie — Biology>

16B. The publication of the Lytton Report, which claimed that this state was a rightful part of China, caused Japan to leave the League of Nations. For 10 points each:

[M] Name this Japanese puppet state in northern China that was formed following the false-flag Mukden Incident.

ANSWER: **Manchukuo** [or **Mǎnzhōuguó** or **Manshūkoku**; accept **State of Manchuria** or **Empire of Manchuria**; prompt on **Manchuria**]

[H] This last emperor of the Qing Dynasty was appointed Emperor of Manchukuo in 1935. An earlier failed attempt to restore this emperor to the throne was made by warlord Zhang Xun in 1917.

ANSWER: **Pǎiyí** [or **Xuāntǒng** Emperor; prompt on **Kangde** Emperor or **Kang-te** Emperor]

[E] Manchukuo and Japan fought a war with the Soviet Union in the late 1930s over its border with this other country. The war ended in a Soviet victory following the Battles of Khalkhin Gol, which took place roughly 600 miles east of this country's capital, Ulaanbaatar.

ANSWER: **Mongolian** People's Republic [or Bügd Nairamdakh **Mongol** Ard Uls]

<Rao — World History>

17T. **The speaker of a poem set in this country exchanges “polite meaningless words” with soldiers before lamenting that a war has left them “all changed, changed utterly.” A poet from this country rendered the word “hwæt” [wet] as “So!” in a 1999 translation of *Beowulf*. A poem by an author from this country claims that “an aged man is but a paltry thing” before declaring “that is (\*) no country for old men.” That author from this country described how “things fall apart” in a poem that ends with the image of a “rough beast...slouch[ing] towards Bethlehem to be born.” “Easter, 1916” is set in, for 10 points, what home country of Seamus Heaney and W. B. Yeats?**

ANSWER: **Ireland** [or **Éire**]

<R. Wang — British Literature>



17B. In a 2016 paper, astronomers Konstantin Batygin and Michael Brown described how the existence of this object may explain the clustered orbits of some extreme trans-Neptunian objects. For 10 points each:

[H] Name this hypothetical object, estimated by Batygin and Brown to have a mass five to ten times that of the Earth. This high-eccentricity object is also theorized to flip the orbits of some trans-Neptunian objects 90 degrees with respect to the ecliptic.

ANSWER: **Planet Nine** [accept answers indicating a **ninth planet**; prompt on David Bowie; do not accept or prompt on “Planet X”]

[M] Planet Nine would also affect the distribution of long-period comets that likely originate from this region, which extends from roughly 2 000 AU to 200 000 AU from the Sun. This region surrounding the Sun lies beyond the Kuiper belt and scattered disc.

ANSWER: **Oort** [ORT] cloud [or Öpik–**Oort** cloud]

[E] Because of Planet Nine’s low estimated surface temperature of 47 Kelvin, its peak emission would be in this region of the electromagnetic spectrum. Light in this region of the spectrum has a wavelength between that of visible and microwave radiation.

ANSWER: **infrared** [or **infrared** light or **IR**]

<Rao — Other Science>

18T. **During an invasion of this country by the French admiral Louis Tromelin, this country’s first Chief Justice William Little Lee attempted to negotiate a peace with the attackers. The Blount Report investigated the American role in the overthrow of this country’s government. John Young and Isaac Davis were advisors to this country’s first monarch, who established the Law of Splintered Paddle. This country’s monarch was forced to sign the Bayonet (\*) Constitution in 1887.** This country was unified by Kamehameha I, and James Cook was killed in this country. Sanford Dole was the first president of this nation’s republic, and Lili‘uokalani was the final monarch of this nation. For 10 points, name this country that later became the 50th U.S. state.

ANSWER: **Hawai‘i** [or Kingdom of **Hawai‘i** or **Hawaiian** Kingdom or Republic of **Hawai‘i**]

<Rao — Other History>

18B. This author wrote his debut novel in a closet to find privacy, quipping that “for a gay writer, the irony is not lost on me.” For 10 points each:

[H] Name this poet who explored war trauma in his 2016 poetry collection *Night Sky With Exit Wounds*. This poet was longlisted for the National Book award for his 2019 epistolary novel *On Earth We’re Briefly Gorgeous*.

ANSWER: Ocean **Vuong**

[E] As a child, Vuong fled as a refugee from this country. Lyrics from Irving Berlin’s “White Christmas” are interposed between lines of “Aubade with Burning City,” Vuong’s poem about the fall of Saigon in this country.

ANSWER: **Vietnam**

[M] The main character of *On Earth We’re Briefly Gorgeous* is named for one of these animals. Jack London wrote about Buck, one of these animals, in *The Call of the Wild*.

ANSWER: **dogs** [accept Little **Dog**]

<Wu / Rynearson — Other Literature>

19T. **This state’s Lake Calhoun had its name officially changed to Bde Maka Ska in 2020. This state contains a national park centered on the Kabetogama Peninsula, Voyageurs National Park. Due to a historical oversight in border definitions, this state’s Northwest Angle is separated from the rest of it by the (\*) Lake of the Woods.** The Vermillion and Mesabi iron ranges are located near this state’s port city of Duluth. This state’s Lake Itasca is the start of the Mississippi river, which flows through its Twin Cities metro. For 10 points, name this state, nicknamed the “Land of 10,000 Lakes,” which contains St. Paul and Minneapolis.

ANSWER: **Minnesota**

<Ye — Geography>

19B. This thinker left cars unattended with no license plate and an open hood in both Palo Alto and the Bronx to test the broken windows theory. For 10 points each:

[M] Name this Stanford psychologist who described visual similarities between his most famous experiment and Abu Ghraib in his book *The Lucifer Effect*.

ANSWER: Philip **Zimbardo**

[E] Zimbardo conducted an experiment at Stanford to simulate one of these locations in which students were assigned the roles of inmate or guard to study how people were affected by perception of power or authority.

ANSWER: **prisons** [accept Stanford **Prison** experiment]

[H] The experiment sought to differentiate between dispositional and situational forms of this concept. A “fundamental error” of this concept states that people often blame a person’s actions on personality rather than circumstances.

ANSWER: **attribution** [accept dispositional **attribution** or situational **attribution**]

<Morales — Social Science>

20T. A polyhedron called the “truncated [this shape]” is formed by removing small regular tetrahedra from the vertices of this shape. A fractal generated from this shape is named for Karl Menger. A regular tetrahedron can be inscribed in one of these shapes by connecting non-adjacent vertices. The Delian problem concerned constructing a larger one of these shapes with twice the (\*) volume of another, which was shown to be impossible with compass and straightedge. A four-dimensional generalization of this shape is the tesseract. This shape is the Platonic solid with the [emphasize] second fewest faces. For 10 points, name this regular polyhedron with six square faces.

ANSWER: **cube** [or **regular hexahedron**; prompt on **hexahedron**]

<Tran — Other Science>

20B. One six-movement work in this form ends with a Pastorale *ad libitum* movement in 12/8 [twelve-eight] time. For 10 points each:

[H] Name this Baroque musical form popularized by Arcangelo Corelli, such as in his aforementioned *Christmas* work of this type. In this musical form, a small group of solo players are accompanied by a larger orchestra.

ANSWER: **concerto grosso** [prompt on **concerto**]

[M] The concerto grosso third movement of J. S. Bach’s *Brandenburg Concerto No. 5* features a harpsichord, a violin, and this wind instrument as soloists. The trio sonata in Bach’s *The Musical Offering* is written for this wind instrument, violin, and basso continuo.

ANSWER: transverse **flute**

[E] This composer wrote several concerto grosso movements for his suite *L'estro armonico*. This composer may have himself written the sonnets that accompany his set of violin concertos titled *The Four Seasons*.

ANSWER: Antonio (Lucio) **Vivaldi**

<Rao — Auditory Fine Arts>