HARI (Hari's Academic Regionals(-minus) Invitational): Caught up in the Harimoment

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ROUND 7

Tossups

1. These events are the "bad" Nash equilibrium in a model where agents are classified as Type 1 or Type 2 by whether they consume now or in the future. The Diamond–Dybvig model predicts that government backing is a better mechanism of preventing these events than suspension of convertibility. In Social Theory and Social Structure, Merton presents a fictional one of these events observed by Cartwright Millingville as an example of a "self-fulfilling prophecy." These events arise due to the combination of (*) liquid, short-maturity liabilities and illiquid, long-maturity assets imposed by a fractional reserve system. These events are prevented with deposit insurance, such as through the FDIC. For 10 points, name these events which occur when people withdraw money out of fear of losing their money, causing banks to fail.

ANSWER: bank <u>runs</u> [or <u>bank</u>ing <u>crises</u>; or <u>bank panic</u>s; or <u>bank insolvency</u>; accept <u>bank failure</u>s before "fail"; after "bank" is read, accept answers of <u>crisis</u> or <u>crises</u> or <u>panic</u>s or <u>insolvency</u>; prompt on answers referring to <u>banks closing</u>; prompt on <u>depressions</u> or <u>recessions</u> with "which can lead to what events?"; do not accept or prompt on "bankruptcy"]

<Social Science, Chen>

2. Alice Ball developed a chaulmoogra oil-based serum for these people, which was used in places such as Carville, Louisiana. As recounted in *The Motorcycle Diaries*, Che Guevara travelled to the Peruvian village of San Pedro to visit 600 of these people. Marianne Cope was canonized for her work with these people. Scholars have debated over whether these people were forced to use (*) bells to alert others to their presence. The Order of Saint Lazarus was founded to treat these people, who included Baldwin IV of Jerusalem. In the 1860s, the settlement of Kalaupapa on Moloka'i was where Father Damien treated these people. For 10 points, name these sufferers of Hansen's disease who were cast out of society to namesake "colonies."

ANSWER: **leper**s [accept people with **leprosy**; accept people with **Hansen's** disease before mentioned] <Ancient/Other History, Nageswaran>

3. The central figure is surrounded by two pomegranates and four lunettes in a work in this medium discovered in Dorset. A technique meaning "worm-like" is used to accentuate the outlines of figures in works of this medium. A figure who wears a Phrygian cap and plays the lyre was a popular motif depicted in works in this medium. The (*) House of the Faun contains a work in this medium whose central figure wears a breastplate with Medusa's face on it. The church of San Vitale in Ravenna contains several works in this medium depicting the court of Justinian. Alexander the Great is depicted in a work in this medium discovered in a Pompeii villa. For 10 points what medium commonly used by Roman artists consists of multiple small tiles pieced together?

ANSWER: **mosaic**s [prompt on <u>tile</u>s or <u>tessera</u>e]

<Visual Fine Arts, Parameswaran>

4. In concrete chemistry, a normalized form of this quantity is measured using a Wagner turbidimeter or through the air permeability method. The specific form of this quantity is used to quantify the efficacy of Raschig rings and can be calculated by using the BET isotherm. The tendency for the minimization of this quantity to increase vapor pressure is described by the (*) Kelvin equation. Surface energy, which generalizes the concept of surface tension, equals Gibbs free energy over this quantity. Catalyst supports and adsorbents typically have high values of this quantity, such as activated carbon and silica gel. For 10 points, name this quantity that is equal to four pi times radius squared for a sphere.

ANSWER: surface **area** [or specific surface **area**; accept **fineness**] <Chemistry, Chen>

5. In this story, the example of Lazarus is used to warn against crossing the Death Swamp. A "strong fellow" in this story is referred to as being "like all his race, a bit of a savage." A character in this story is recognized by another as the author of a book on snow leopards in Tibet. That character decides that he had never slept in a better bed at the end of this story. After (*) falling overboard, a character in this story swims to Ship-Trap island. A Burmese tiger pit fails to trap one character in this story, although a recoiling knife succeeds in killing the Cossak Ivan. When boasting about his abilities, a character in this story mentions that the ideal animal to hunt would possess reason. For 10 points, name this short story by Richard Connell where Sanger Rainsford is hunted by General Zaroff.

ANSWER: "The <u>Most Dangerous Game</u>" [accept "The <u>Hounds of Zaroff</u>" before "Zaroff" is mentioned] <Short Fiction/Other, Nageswaran>

6. This person collected newspaper clipping autographs in the so-called "Book of Life." A speech by this person titles a bell hooks book which attacks the limited scope of Michele Wallace's and Kate Millett's activism. Marius Robinson's account of one of this person's speeches differs from Francis Gage's in omitting its most notable phrase. This person grew up in New York speaking Dutch, leading to a speech she gave in (*) Akron, Ohio being edited to sound more "southern." This person claimed that "man...is surely between a hawk and a buzzard" and that she had "ploughed and planted" in one speech. In that speech, this woman declared she could bear the lash as well as a man. For 10 points, name this abolitionist who gave the "Ain't I a Woman?" speech.

ANSWER: Sojourner **Truth** [or Isabella **Baumfree**]

<American History, Nageswaran>

7. In one account, a man saw these objects near a sword that wouldn't be resheathed until "the kingdoms of this world become the kingdom of our God." One man claimed a leadership position using a brass set of objects meant to resemble these objects and named for either Voree or Rajah Manchou. These objects were stored near a Sword used by King Benjamin and two objects from the breastplate of Aaron. Oliver Cowdery and David Whitmer were two of the (*) Three Witnesses who attested to seeing these objects. These objects were found at Cumorah along with Urim and Thummim, two "seer stones" used to translate the Reformed Egyptian on them. A religious leader was led to these objects by the Angel Moroni. For 10 points, name these objects from which Joseph Smith transcribed the *Book of Mormon*.

ANSWER: the **golden plates** [prompt on <u>plates</u>; prompt on <u>Urim and Thummim</u> by asking "What other objects were found alongside them?"]

<Religion, W. Groger>

8. In the "Third Interlude" at the end of one play, a character becomes a member of this profession in a song and dance mock-ritual in Latin. A valet pretends to have a twin with this profession in order to fool Gorgibus in a play that borrows the *commedia dell'arte* trope of a "flying" member of this profession. One character wants his daughter Angelique to marry Thomas Diaforious because he has this profession, but she is in love with (*) Cléante instead. Molière frequently wrote about people pretending to have this profession, including the woodcutter Sganarelle who actually becomes one "in spite of himself." For 10 points, give this profession, members of which examine Argan in *The Imaginary Invalid* because he believes himself to be sick.

ANSWER: <u>doctor</u> [or <u>médecin</u>; accept equivalents like <u>physician</u>; accept <u>The Flying Doctor</u> or <u>The Doctor in</u> <u>Spite of Himself</u> or <u>Le Médecin volant</u> or <u>Le Médecin malgré lui</u>]

<Drama, Berns>

9. Description Acceptable. The efficiency of the output of this process can be quantified by calculating the Hardgrove index or by performing isokinetic sampling on a fuel line. A high-energy form of this process is used prior to sintering in mechanical alloying. Limestone that has undergone this process is sprayed in coal mines to act as a heat sink. Coal is fed from a hopper into a device that performs this process, the product of which is fed into a (*) boiler and combusted. This process is performed by repeatedly dropping steel balls onto an ore in a ball mill. In the context of coal, this process is called pulverization. For 10 points, name this process of particle size reduction that can be performed using a mortar and pestle.

ANSWER: **grind**ing [accept word forms of any of the answers; or **crush**ing; or **comminution**; or **pummel**ing; or **powder**ing; accept **pulverization** before "pulverization"; accept answers referring to turning materials to **dust** or **particles** before "particles"; accept **size reduction** before "size reduction"; accept **mill**ing before "ball mill"; accept answers which reference specific materials, such as "**pulveriz**ing coal"]

<Other Science, Chen>

10. This composer used harmonic planing to open a piano prelude with large, slow chords over a low C pedal. A poem that describes "birds in the trees dreaming" inspired this composer to write a D-flat major piece in 9/8 time. In a different piano piece, he parodied the "Longing" leitmotif from *Tristan and Isolde* four times. This composer, who included a "Menuet" and (*) "Passepied" in one of his collections, was inspired to write another collection following the birth of his daughter Chou-Chou. That collection by this composer contains a piece inspired by popular minstrel dolls, "Golliwog's Cakewalk." For 10 points, name this French composer of *Children's Corner* and "Clair de Lune."

ANSWER: Claude **<u>Debussy</u>**

<Auditory Fine Arts, Parameswaran>

11. Nancy Peluso coined a term referring to the practice of creating these objects in "counter" to hegemonic power structures. Development of the "communication model" of these objects was inspired by John Brian Harley, a historian of these objects who claimed that they are never "value free." Arno Peters called one of these things (*) racist and claimed it perpetuated imperialism. A metaphor coined by Alfred Korzybski that means the representation of an object isn't the object itself states that one of these things is not the territory. In 2017, Massachusetts adopted usage of the equal-area Gall-Peters one of these objects in public schools. For 10 points, what objects which include the Mercator are studied in cartography?

ANSWER: <u>map</u>s [or map <u>projection</u>s; accept counter<u>map</u>ping; accept <u>map</u> communication model] <Other, Chen>

12. In a 1949 history of this crop, Redcliffe Salaman argued that one culture would carve eyes into sculptures representing this crop for a good harvest. This crop, which was used to make the freeze-dried product chuño, was the most common crop harvested using a foot-plow called a taclla. It's not tobacco, but Walter Raleigh legendarily harvested this crop at his (*) Cork plantation, thus spreading it to England. This crop, which was embodied by the Incan mother goddess Axomama, was cultivated around 8,000 years ago near Lake Titicaca. Nunn and Qian traced the post-1700s European population boom to this crop. For 10 points, name this crop, a starchy tuber which came to Europe via the Columbian Exchange.

ANSWER: **potatoes** [or **papa**s; or **patata**s; do NOT prompt on or accept "sweet potato"] (The first clue refers to the Moche.)

<World History, Parameswaran>

13. A character in this novel jokes that a spirit impelled another character to swim for the first time on the 28th of August. A short chapter in this novel describes the seductive voice and sensuous touch of the sea. This novel's protagonist remembers walking through tall grass like wading through water at her father's home in Kentucky. While sailing, a character in this novel sings a song whose every verse ends with (*) "si tu savais." Near the end of this novel, a bird with a broken wing is seen falling into the water as a character removes her swimsuit and thinks of her children and husband Léonce. For 10 points, Edna Pontellier throws herself into the Gulf of Mexico at the end of what novel by Kate Chopin?

ANSWER: *The Awakening* <Long Fiction, Zhang>

- 14. Motions of these objects are the most common to be described by transfer functions called response amplitude operators. William Froude originally proposed the Froude number as a description of the speedlength ratio of these objects, which is equal to flow speed over the square root of LWL. These objects are statically stable if they have a large metacentric height, which is the distance between the metacenter and the center of (*) gravity. Perturbations like wind can cause the center of buoyancy of these objects to move laterally, causing these objects to "heel." Historically, the speed of these objects was determined using a log line, which is why their speed is often reported in knots. For 10 points, name these buoyant vehicles that float on top of water. ANSWER: ships [or boats; or watercraft; or marine vessels; accept specific types of watercraft like canoes or rafts or yacttographs; antiprompt on parts of ships like hulls or masts or sails with "which is a part of what objects?"; prompt on floating objects or buoyant objects with "what specific floating objects are we talking about?"] Physics, Chen>
- 15. In his discussion of a thought experiment involving this action, Allen Wood argues that most interpretations are flawed by considering a different thought experiment about a policeman from *Doctrine of Virtue*. Hugo Grotius claims this action necessarily involves a violation of a right to free judgment, making it impossible to do this action with children or madmen. Benjamin (*) Constant's claim that a complete prohibition on this action would "make all society impossible" prompted a response essay about the "Supposed Right" to perform this action "from Benevolent Motives." Immanuel Kant controversially claimed that this action is always morally wrong, even in a scenario where a murderer is at the door. For 10 points, give this action where one does not tell the truth.

ANSWER: **lying** [or telling **lies**; or **deception**; accept **not telling the truth** before mention] <Philosophy, Berns>

- 16. The speaker of a poem recalls the name of this figure "creeping thence steadily up to my ears and laving me softly all over." It's not a person, but the speaker of a poem calls this figure's outlet a "song of the bleeding throat." That poem's speaker imagines the thought and knowledge of this figure as "comrades" walking on either side of him as he listens to a bird's song that calls this figure (*) "lovely and soothing." A poem about this figure recalls "tis Centuries and yet / Feels shorter than the Day" since the speaker "first surmised the Horses' Heads / Were toward Eternity." In that poem, this figure drives a carriage which "passed the Fields of Gazing Grain" and "the Setting Sun." For 10 points, name this figure who "kindly stopped" for Emily Dickinson. ANSWER: Death [The first two poems are "Out of the Cradle Endlessly Rocking" and "When Lilacs Last in the Dooryard Bloom'd" by Walt Whitman.]
- <Non-Epic Poetry, Faeder>
- 17. One song in this musical work begins with the organ playing the notes "E-G-long A-long A." In this musical work, "you lot who...watch your waist well" are told to "learn, for once, the way the world is run." The arrival of a messenger at the end of this work suddenly saves a character from being executed. Several songs in this work, including one referencing the revenge of Jenny Diver, were translated into English by Marc Blitzstein. Another song in this work was famously recorded by (*) Bobby Darin and begins with lyrics referencing a shark's teeth. Polly Peachum's father disapproves of her marriage in this work, which was based on the 18th-century English "Beggar's Opera." For 10 points, the song "Mack the Knife" appears in what Kurt Weill musical with lyrics by Bertolt Brecht?

ANSWER: The <u>Threepenny Opera</u> [or Die <u>Dreigroschenoper</u>]

<Fine Arts, Nageswaran>

18. Paul-Henri Spaak, this organization's second leader, was among "the Six" who opposed the Fouchet Plan. This organization sponsored Project Caesar as part of its efforts to fortify the GIUK gap, a move which was heavily protested in 1950s Iceland. This organization, which pursued the Double-Track Decision in the 1980s, has been accused of violating the 1968 (*) Non-Proliferation Treaty through its "nuclear sharing" program. This organization relocated its Allied Command Operations after Charles de Gaulle ordered France's withdrawal from it in 1966. Article V of this organization's charter was finally invoked following 9/11. For 10 points, name this defensive alliance headquartered in Brussels that opposed the Warsaw Pact.

ANSWER: NATO [or North Atlantic Treaty Organization]

<European History, Parameswaran>

19. By inhibiting cytochrome p450s, pipepronyl butoxide enhances the effect of these products, including the naturally-derived pyrethrins (pie-REE-thrinz). Knipling and Bushland developed an approach called SIT that uses sterilization as an alternative to these products. Spores of *Bacillus thuringiensis* are used in the "biological" variant of these products, which also include plant-incorporated protectants. The use of (*) neonicotinoids as these products is a possible cause of colony collapse disorder in honey bees. The harmful effects on birds' eggshells caused by one of these products named DDT were the subject of Rachel Carson's book *Silent Spring*. For 10 points, name these chemicals used to kill animals like beetles and flies.

ANSWER: <u>insecticide</u>s [accept <u>pesticide</u>s; prompt on descriptive answers referring to chemicals used kill <u>insect</u>s or <u>bug</u>s or <u>pests</u>; do not accept "herbicides" or answers referring to pesticides used on weeds or plants] <Biology, Zhang>

20. One of these animals called Girimehkala serves as King Mara's mount. Devadatta sent an intoxicated one of these animals to kill his cousin, who calmed it down with his kindness. After one of these animals threw a garland, Durvasa cursed the gods and told them to churn the Ocean of Milk. Queen Maya dreamt of one of these animals, foretelling the (*) birth of the Buddha. Airavata, the mount of Lord Indra, is a white one of these animals. A god who partially resembles one of these animals has Kroncha, a mouse, for a mount; that god once won a race around the world by walking around his parents. Shiva kills one of these animals after beheading a figure standing guard at his house. For 10 points, Ganesh has the head of what tusked animal?

ANSWER: <u>elephant</u>s <Mythology, Shanmugam>

Bonuses

1. An unprecedented treaty between the Byzantines and Umayyads in 688 resulted in this island being ruled jointly by both powers. For 10 points each:

[10m] Name this island. Byzantine control of this island was usurped by its last governor, Isaac Komnenos, who rebelled against imperial authority.

ANSWER: Cyprus

[10e] After Isaac insulted this king's wife Berengaria, he overthrew Isaac while on his way to the Holy Land. This English king brokered peace with Saladin during the Third Crusade.

ANSWER: **Richard I** [or **Richard the Lionheart**ed; prompt on **Richard**]

[10h] Peter I of Cyprus led a crusade that sacked this Muslim city in 1365 under the belief that it would divert trade to Cyprus. This port was the main conduit through which Venetian traders obtained spices.

ANSWER: <u>Alexandria</u> <European History, Hong>

2. An autoantibody-mediated form of this condition is most commonly caused by ovarian teratomas. For 10 points each:

[10h] Identify this condition caused by a serocomplex of flaviviruses spread by Culex mosquitoes, which include one named for St. Louis and another named for Japan. It is the most common neurological complication of West Nile fever.

ANSWER: **encephalitis** [accept answers referring to **inflammation** or **swell**ing of the **brain**; prompt on **encephalopathy**; prompt on **inflammation** with "of what?"]

[10e] This flavivirus caused a 2014 epidemic in West Africa. Like the related marburgviruses, it causes hemorrhagic fever.

ANSWER: Ebola virus

[10m] This outbreak of H1N1 caused a large number of cases of encephalitis lethargica. A deadly "second wave" of this outbreak has influenced the response to the second wave of COVID-19.

ANSWER: **1918** in**flu**enza pandemic [or the **Spanish flu**; do not accept or prompt on "swine flu"] <Biology, Chen>

3. Natalia helps her friend Quimet raise pigeons that she later kills in a novel set in this city. For 10 points each: [10e] Name this city, the setting of Mercè Rodoreda's *The Time of the Doves*. Rodoreda is from this Catalanspeaking city, the second largest in Spain.

ANSWER: **Barcelona**

[10m] The Time of the Doves is written in this style. Another novel written in this style uses brackets to denote deaths in its middle section "Time Passes."

ANSWER: **stream of consciousness** [The second novel is *To the Lighthouse*.]

[10h] A recently-published Rodoreda novel follows a worker in one of these places who narrates Mediterranean bourgeois life. In a different novel, the protagonist is awed by the simultaneous "natural beauty" and "awkward taste" of one of these places in Pemberley.

ANSWER: **garden** [accept **Garden** by the Sea; prompt on <u>estate</u>s, <u>mansion</u>s, etc.] (The second novel is *Pride and Prejudice*.)

<Long Fiction, Zhang>

4. This figure once spent three days in the river Kali Bain, during which he received a drink of nectar from the Waheguru. For 10 points each:

[10m] Name this guru, who founded a religion after proclaiming that "there is no Hindu and there is no Muslim."

ANSWER: Guru Nanak

[10e] Guru Nanak founded this faith. The Golden Temple, the holiest site of this faith, was built around a pool of water that followers can dip or drink from.

ANSWER: Sikhism

[10h] Original language term required: participants drink holy water that is sweetened and stirred with a sword in this ceremony. The Panj Pyare were the "five beloved ones" who first undertook this ceremony after Guru Gobind Singh called for offers of heads.

ANSWER: **amrit** sanchar [prompt on <u>initiation</u> into the khalsa]

<Religion, Zhang>

5. Two Indonesian techniques for this craft called *songket* and *tapis* both use gold thread interlaced with fabric. For 10 points each:

[10e] Name this general craft that uses looms. Unlike knitting or crocheting, this craft joins two perpendicular strands of fabric rather than one.

ANSWER: weaving

[10m] In the Indonesian technique of *ikat*, this process is done to a fabric prior to weaving. *Batik* is a "resist" technique used for this process.

ANSWER: **dye**ing [accept resist **dye**ing or wax-resist **dye**ing]

[10h] Scenes are hand painted onto woven scrolls and presented in the *beber* version of this art form. *Kulit*, the most common variant of this type of Javanese theater, employs shadow puppets made out of leather.

ANSWER: wayang

<Other Fine Arts, Zhang>

6. Stokes' law states gives the magnitude of this force on a sphere in a fluid undergoing laminar flow. For 10 points

[10e] Name this force which opposes the motion of an object through a fluid. It is equal to the force of gravity in objects falling at terminal velocity.

ANSWER: **drag** [accept **air resistance**, prompt on air <u>friction</u>]

[10m] D'Alembert's paradox concerns how an incompressible, and irrotational steady flow with a value of this quantity has zero drag. By Stokes' law, for a sphere in a fluid, 6pi times radius times velocity times this quantity is the drag.

ANSWER: dynamic viscosity

[10h] An irrotational flow is formally equivalent to a fluid flow defined by one of these functions. Lines along which this function is constant are perpendicular to streamlines.

ANSWER: velocity **potential**s [accept **potential** flow]

<Physics, Schwartz>

7. In this play, Thais is given an Ethiopian slave alongside the title character by Phaedria. For 10 points each:

[10h] Name this Roman play in which Chaerea dons the title disguise in order to rape Pamphila.

ANSWER: The **Eunuch** [or **Eunuchus**]

[10m] The Eunuch is a play by this author, who was brought to Rome as a slave from Carthage. Many of his plays, including *The Self-Tormentor*, *The Mother-In-Law*, and *The Eunuch* are loose translations of plays by Menander.

ANSWER: **Terence** [or Publius **Terentius** Afer]

[10e] Terence succeeded Plautus as one of the most prominent Roman playwrights in this genre. In ancient Greece, this genre's "new" form was pioneered by Menander while its "old" form was practiced by Aristophanes.

ANSWER: **comedy** <Drama, Schwartz>

8. Tom Regan argued that these beings are "subjects-of-a-life," meaning that they must be treated as ends in themselves. For 10 points each:

[10e] Name these beings. Regan practices vegetarianism, by which he doesn't eat these beings.

ANSWER: non-human animals

[10h] This philosopher borrowed from Aristotle's *On the Motion of Animals* in adapting the "capabilities approach" towards understanding animal rights. This philosopher from the University of Chicago also wrote *Hiding from Humanity*.

ANSWER: Martha Nussbaum

[10m] Many defenses of animal rights are based on Thomas Nagel's paper about one of these animals. Nagel argues that humans cannot comprehend the consciousness of these animals, even if they completely understand its physiology.

ANSWER: bats

<Philosophy, Parameswaran>

9. This painting used a color system based on musical notes that the artist learned from H.G. Maratta. For 10 points each:

[10h] Name this painting that depicts immigrants spilling out onto the streets from tenement houses. A street vendor pushes a yellow cart through a crowd in this painting that is crossed by several clotheslines at the top.

ANSWER: The Cliff Dwellers

[10e] *The Cliff Dwellers* was painted by George Bellows, a member of this city's Ashcan School. *The Cliff Dwellers* depicts this city's Lower East Side, a region north of this city's Brooklyn Bridge.

ANSWER: **New York** City [accept **NYC**]

[10m] This book of photographs of New York City tenements by Jacob Riis mirrored the poor conditions depicted in Ashcan School paintings.

ANSWER: How the Other Half Lives

<Visual Fine Arts, Martin>

10. Answer the following about the foreign policy of the Meiji government. For 10 points each:

[10e] The government shocked the world when they defeated this empire in a 1905 conflict, forcing its czar Nicholas II to sign the humiliating Treaty of Portsmouth.

ANSWER: **Russian** empire

[10h] The Meiji Government gained control over Taiwan as a result of this treaty, which ended the First Sino-Japanese War. Japan also gained the Liaodong Peninsula through this treaty, but a Triple Intervention forced it to give it up.

ANSWER: Treaty of **Shimonoseki**

[10m] The Meiji government's interventionism in China ran counter to this American policy, which argued for China to be opened up for equal trade. It was masterminded by John Hay.

ANSWER: **Open Door** policy <World History, Parameswaran>

11. Benjamin Keen examined the "Legacy" of this man, who is the subject of a canonization campaign by Helen Rand Parish. For 10 points each:

[10m] Name this Dominican friar who was appointed Protector of the Indians. He argued against the enslavement of Native Americans in the Valladolid debate.

ANSWER: Bartolomé de las Casas

[10e] de las Casas' *A Short Account of the Destruction of the Indies* vilified this Habsburg king's treatment of Native Americans. His son Philip II was also accused of committing atrocities during the Eighty Years' War.

ANSWER: **Charles V** [or **Charles I** of Spain; prompt on **Charles**]

[10h] Many have also accused de las Casas of instigating the transatlantic slave trade, including this abolitionist who wrote *An Appeal to the Coloured Citizens of the World*.

ANSWER: David **Walker** <Ancient/Other History, Zhang>

12. Potassium permanganate is often used as an indicator in redox titrations. For 10 points each:

[10m] At the equivalence point of a redox titration with acidified potassium permanganate as the indicator, the color of the analyte solution changes from this color to clear.

ANSWER: **purple** [accept **pink**, **magenta**, and other reasonable equivalents]

[10e] The purple to clear color change is due to the permanganate ion undergoing this type of reaction. This type of reaction corresponds to a decrease in the oxidation state in a reactant species and is contrasted with oxidation.

ANSWER: reduction

[10h] Most d metal complexes are not as deeply colored as permanganate due to this selection rule. This rule dictates that d-d transitions in centrosymmetric complexes are forbidden.

ANSWER: <u>Laporte</u> rule <Chemistry, Tong>

13. A composer of this ethnicity recorded whale songs for his symphonic poem *And God Created Great Whales*. For 10 points each:

[10m] Name this ethnicity of the composer of *Mysterious Mountain*. Another composer of this ethnicity created the ballet *Gayane*, which includes the "Sabre Dance."

ANSWER: <u>Armenian</u> [accept <u>Armenian</u>-American] (Aram Khachaturian composed the *Sabre Dance*.)

[10h] Alan Hovhaness's *Mysterious Mountain* was premiered by this conductor of the Philadelphia Orchestra. This conductor's mastery of the organ influenced his several arrangements of Bach, and he also arranged a version of *Night on Bald Mountain*.

ANSWER: Leopold Stokowski

[10e] This other composer witnessed the debut of Hovhaness's *Loudaszak*, which may have inspired his aleatoric style in works such as *Music for Changes*. He composed 4'33" ("four minutes, thirty-three seconds").

ANSWER: John Cage

<Auditory Fine Arts, Parameswaran>

14. In late 2020, a holder of this position created the disastrous GoTo program meant to promote tourism by discounting travel, which received backlash for spreading the coronavirus. For 10 points each:

[10m] Name this office, which has been controlled by the Liberal Democratic Party since 2012. A former holder of this office created a namesake economic program that focused on the "three arrows."

ANSWER: **Prime Minister of Japan** [The program is Abenomics; the first holder is Yoshihide Suga.] [10e] Current PM Fumio Kishida has promised to abandon Abenomics, which targeted 2% for this value. The Federal Reserve also targets 2% for this measure of the increase in price levels.

ANSWER: inflation rate

[10h] This adjective has been applied to the stagnant economy of Japan in the past 30 years. This adjective first described the "Decade" following the collapse of Japan's real estate bubble in 1991.

ANSWER: **lost** [accept **Lost** 30 Years or **Lost** Decades]

<Current Events, Zhang>

15. A set of poems known by this adjective includes "Batter my heart, three-person'd God." For 10 points each: [10e] Name this adjective. John Donne wrote 19 "sonnets" including "Death, be not proud" collectively described by this adjective.

ANSWER: **holy** [accept **Holy** Sonnets]

[10m] That *Holy Sonnet* XVII ("17") is an elegy for Donne's wife, who had this first name. This was the real first name of the author of the poem *Lines Composed in a Wood on a Windy Day*, who published under the pseudonym Acton Bell.

ANSWER: **Ann**e [accept **Ann**e More or **Anne** Brontë]

[10h] In another Holy Sonnet, the speaker describes how "both parts" of this thing must die and "must be burnt." This thing is metaphorically compared to the soul and had previously been made "fouler" by "the fire / Of lust and envy."

ANSWER: his **world** [accept I am a little **world** made cunningly]

<Non-Epic Poetry, Zhang>

16. Answer the following about interesting Interstate intersections, for 10 points each:

[10e] The Alphabet Loop surrounding the downtown of this city combines four Interstates and four U.S. Highways and has exits labelled 2A to 2Y. This largest city in Missouri shares its name with both a city in a neighboring state and that neighboring state.

ANSWER: Kansas City, Missouri [do not accept or prompt on "Kansas City, Kansas"]

[10m] A complex 12-story-tall interchange in Dallas is named because it has this many levels. The names of major north-south-oriented Interstates end in this number.

ANSWER: **5** [accept High **Five** Interchange]

[10h] This city is tied for the most number of intersecting primary Interstates at four, with I-65, 69, 70, and 74 all reaching the city. This city thus bears the nickname "Crossroads of America."

ANSWER: Indianapolis, Indiana

<Geography, Zhang>

17. Two leaders of this organization, Dennis Banks and Russell Means, were arrested after a standoff with FBI agents. For 10 points each:

[10m] Name this organization. This group, which embarked on the Longest Walk, also co-sponsored a march known as the Trail of Broken Treaties.

ANSWER: **American Indian Movement** [or **AIM**]

[10e] The AIM targeted the Pine Ridge Reservation due to it being the site of this 1890 massacre. During this event, forces under James Forsyth shot at mostly-unarmed ghost-dancing Lakota.

ANSWER: Wounded Knee Massacre

[10h] The Native American takeover of Alcatraz was justified by this treaty, which allowed Native Americans to reclaim unused federal land. This treaty was signed after Red Cloud's War.

ANSWER: Treaty of **Fort Laramie**

<American History, Nageswaran>

18. In the book *Your Republic is Calling You*, a spy in this country struggles after he finds out he is supposed to return to his homeland. For 10 points each:

[10m] Name this country. Another author from this country depicted a woman's decision to stop eating meat in *The Vegetarian*.

ANSWER: **South Korea** [accept **Republic of Korea**; prompt on Korea]

[10e] Kim Young-ha, the author of *Your Republic is Calling You*, wrote about a man who aids people in this action in *I Have the Right to Destroy Myself*. Yukio Mishima performed this action after a failed coup attempt in Japan.

ANSWER: <u>suicide</u> [accept answers relating to people <u>killing themselves</u>; accept "ritual <u>suicide</u>" or <u>seppuku;</u> prompt on <u>killing</u> or <u>murder</u> with "Who is being killed?"]

[10h] The book *Kim Ji-young, Born 1982* gained popularity during this movement in South Korea. A poem by Choi Young-mi about "En" helped kickstart this movement in South Korea.

ANSWER: #MeToo

<Long Fiction, Nageswaran>

19. This man's balance of power model posited in a 1979 text was updated by one of his students to one of balance of threat. For 10 points each:

[10m] Name this Columbia University political scientist. He divided analysis of war into three "images" in *Man*, *the State*, *and War* and founded the neorealism school in a certain subfield.

ANSWER: Kenneth **Waltz** [The student is Stephen Walt.]

[10e] Waltz should not be confused with Stephen Walt, who are both neorealists of this subfield of political science. This subfield deals with interactions between states.

ANSWER: **international relations** or **international affairs** [accept **IR** or **IA**]

[10h] Both Waltz and Walt should not be confused with political theorist Michael Walzer, who described politicians taking right actions that are morally wrong in an article subtitled for "the Problem of" these body parts.

ANSWER: **dirty hands** [prompt on partial answer]

<Social Science, Zhang>

20. Answer the following about boundary value problems, for 10 points each:

[10e] Boundary value problems provide constraints in solving these equations, which relate a function and its derivatives.

ANSWER: differential equations

[10h] Unlike Dirichlet conditions, which describe the behavior of the solution's boundaries, these conditions describe the behaviors of the *derivatives* of the solution's boundaries.

ANSWER: Neumann boundary conditions [do not accept or prompt on "von Neumann"]

[10m] This mathematician's namesake functions equal the Dirac delta function when acted on by a linear operator, and can be used to solve inhomogeneous boundary value problems. A theorem named for this mathematician is the 2D case of Stokes' theorem.

ANSWER: George **Green** [accept **Green**'s functions or **Green**'s theorem]

<Math, Zhang>