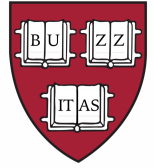


Harvard Fall Tournament XIV

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Packet 5

Tossups

1. **The author of a poem in this language tells the addressee of a field “beyond ideas of rightdoing and wrongdoing” where they will meet. That poet commands the reader to “listen to [the title plant]” in “The Song of the Reed.” The line “O, Wilderness were Paradise enow” from a poem in this language inspired the title of a (*) Eugene O’Neill play. A quatrain in this language, in which the poet longs for “a Jug of Wine, a Loaf of Bread – and Thou,” is part of a collection translated by Edward FitzGerald. For 10 points, name this language used by Rumi to write *Spiritual Couplets* and by Omar Khayyam to write his *Rubaiyat*.**

ANSWER: **Farsi** (or **Persian**)

<Omer, World Literature>

2. **Arnold Schoenberg hailed this composer as a “progressive” in an essay, despite this composer’s dismissal of Bruckner’s symphonies as “symphonic boa-constrictors.” This composer quoted a Bach fugue in his first cello sonata, and wrote a B-minor clarinet quintet for Richard Mühlfeld. This composer of several intermezzi for piano wrote a fourth symphony ending with an E-minor passacaglia. This man used (*) Haydn’s “St. Anthony Chorale” for a set of variations, and his first symphony was dubbed “Beethoven’s Tenth” at its premiere. For 10 points, name this composer who also wrote the *German Requiem* and a famous lullaby.**

ANSWER: Johannes **Brahms**

<Yue, Music>

3. **This politician was criticized for inviting Khalistani extremist Jaspal Atwal to dinner while visiting India. After leaving this politician’s administration, Jane Philpott was ousted from this politician’s party. This politician lost a parliamentary majority after an opposition party gained 121 seats in an October 2019 election. This man tried to pressure former (*) Attorney General Jody Wilson-Raybould to defer prosecution of construction company SNC-Lavalin. This man admitted an overenthusiasm for costumes after a photo of him in Aladdin “brownface” emerged. For 10 points, name this current Prime Minister of Canada.**

ANSWER: Justin **Trudeau**

<R. Li, Current Events>

4. **Hypotheses that question whether this event actually occurred can be generally divided into the “swoon” and “vision” types. This is the *last* of a series of events represented by the “sign of Jonah.” 1 [“first”] Corinthians 15 contends that faith is “futile” had this event not occurred. The Harrowing of Hell occurred immediately before this event. The chief priests (*) bribed soldiers to explain away this event as a hoax. This event occurred in a location originally owned by Joseph of Arimathea. A heavy stone was rolled away from a tomb in the aftermath of, for 10 points, what event that occurred after the Crucifixion and is celebrated on Easter?**

ANSWER: **resurrection** of Jesus Christ (accept equivalents of **resurrection** like **coming back from the dead**; prompt on Harrowing of Hell or Easter until mention; do NOT accept or prompt on the “crucifixion”)

<Suh, Religion>

5. As part of a wood-and-wire model circus, this artist made a wire structure of a woman flipping on top of a man titled *Two Acrobats*. A work by this man serves as a memorial for the siege of Almaden in the Spanish Civil War and exists behind a glass wall. That work was created for the 1937 Paris Exposition and is called *Mercury Fountain*. This artist often used a specific color called his namesake (*) red, which is the color of a work with two tall arches and an avian name. That work by this man is characterized as a “stable.” This man created *Lobster Trap and Fish Tail* and *Flamingo*. For 10 points, name this American sculptor of many “mobiles.”

ANSWER: Alexander Calder

<Gioia, Sculpture>

6. The Supreme Court case *Hills v. Gautreaux* [“guh-TROE”] dealt with the federal government’s provision of this commodity. Low-quality versions of this good were sometimes called “rookeries.” St. Louis provided this good en masse at Pruitt-Igoe [“PREW-it EYE-go”]. The Wagner–Steagall Act provided subsidies for this good. A businessman who provided this good to returning (*) war veterans was William Levitt. The Great Recession is generally considered to have begun with the bursting of a bubble in this industry. For 10 points, name this good that is administered by a Cabinet department along with “Urban Development.”

ANSWER: housing (accept word forms; accept public housing; accept real estate; accept Department of Housing and Urban Development; prompt on Levittowns; prompt on HUD; prompt on mortgages)

<Suh, American History>

7. The input to one type of this process is first separated based on color and then reduced to a powder called cullet. Another type of this process subjects its input to pyrolysis, which produces gas and oil fuels as useful outputs. Alternatively, the inputs can be shredded, melted, then formed into pellets. Products with a (*) resin identification code of seven generally cannot undergo this process. In contrast, PVC, which is labeled with a “3” inside a triangle of arrows, can be used in this process. For 10 points, name this process whose single-stream variety allows one to deposit papers, plastics, and metals into a single container whose contents will be collected and sorted.

ANSWER: recycling (accept word forms; accept glass recycling or plastic recycling)

<K. Li, Other Science>

8. Reversing the results of this conflict was the goal of the failed Project National Glory. Journalist Edgar Snow wrote a first-hand account of a military campaign in this war. The two sides of this conflict temporarily allied to create the Second United Front. An unsuccessful attempt to negotiate an end to this conflict was spearheaded by George Marshall. A major (*) retreat undertaken during this conflict is the “Long March.” This conflict was paused during the Second Sino–Japanese War. For 10 points, name this conflict in which Chiang Kai-shek’s Kuomintang was defeated by Mao Zedong’s Communist forces and retreated to Taiwan.

ANSWER: Chinese Civil War (or Guo–Gong neizhan)

<Suh, World History>

9. Before the 2019 SI unit update, this value was obtained by measuring the speed of sound in argon at the temperature of the triple point of water. This value is the difference between specific heat at constant pressure and specific heat at constant volume. This value multiplies temperature and divides Faraday’s constant in (*) Nernst’s equation. This value is often given in units of liter-atmospheres per mole-Kelvin. This value multiplies temperature and the natural log of the equilibrium constant to determine the Gibbs free energy change in a reaction. For 10 points, name this constant which is multiplied with “n” and “T” in the ideal gas law.

ANSWER: ideal gas constant (prompt on R)

<K. Li, Chemistry>

10. A novel by this author is written from the perspective of H.H., who joins a religious sect known as “The League.” A character created by this author learns how to foxtrot on his 50th birthday and insults a bust of Goethe [“GUR-tuh”]. This author created a gambling-addicted character whose former lover Kamala dies from a snakebite near a river served by the (*) ferryman Vasudeva. A location created by this author is “for madmen only.” In a novel by this author, Hermine and the saxophonist Pablo join the protagonist in the Magic Theater. For 10 points, name this German author of *Journey to the East*, *Siddhartha*, and *Steppenwolf*.

ANSWER: Hermann Karl Hesse

<Gioia, European Literature>

11. This family included two men of the same name, one nicknamed “The Unfortunate” and the other “The Gouty.” A woman from this family led the Day of the Dupes revolt. An institution founded by this family in 1397 popularized double-entry bookkeeping. Pope Sixtus IV endorsed an assassination attempt on a member of this family in the (*) Pazzi Conspiracy. This family feuded with the Strozzi and Albizzi families, and a humanist ruler from this family patronized Michelangelo. Girolamo Savonarola expelled members of this family. For 10 points, name this Florentine family whose members included Cosimo and Lorenzo the Magnificent.

ANSWER: Medici family

<L. Li, European History>

12. This philosopher attempted to disprove the design argument using the concept of a house in a work framed as a conversation between Cleanthes [“clee-AN-thees”], Philo, and Demea. This thinker cited a statement about the sun rising tomorrow and the Pythagorean Theorem as examples of two distinct forms of knowledge. This philosopher distinguished between “relations of ideas” and “matters of fact” in an example of his (*) “fork.” This author of *Dialogues Concerning Natural Religion* considered a thought experiment in one work involving a missing shade of blue. For 10 points, name this Scottish philosopher who wrote *An Enquiry Concerning Human Understanding*.

ANSWER: David Hume

<Gioia, Philosophy>

13. The amount of this molecule can be quantified using propidium [“pro-PIH-dee-um”] iodide or DAPI [“DAPPY”]. A modification to this molecule that prevents its deamination can be identified with bisulfite treatment. Compounds that insert between the paired monomers of this molecule are called intercalating agents and include ethidium bromide. Competent cells can (*) uptake this molecule from the environment by transformation. The production of this molecule can be detected with thymidine analogs. This molecule is amplified by PCR. For 10 points, name this molecule whose structure was determined by crystallography to be a double helix.

ANSWER: DNA (or deoxyribonucleic acid)

<K. Li, Biology>

14. In *Of Human Bondage*, Philip Carey goes to Paris to learn to make these objects. After creating one of these objects, the assertion “I have had my vision” is made by Lily Briscoe. Stockbroker Charles Strickland moves to Tahiti to create these objects in *The Moon and Sixpence*. In one novel, a character thinks of Hetty Merton before dying next to a destroyed one of these objects and is later only identified by his rings. Lord (*) Henry Wotton, Basil Hallward, and the protagonist discuss one of these objects created by Hallward at the beginning of that novel. For 10 points, name this kind of object owned by Dorian Gray in an Oscar Wilde novel.

ANSWER: a painting (accept works of art or equivalents; accept a portrait; prompt on just a picture)

<Yue, British Literature>

15. **If luminiferous ether existed, one of these devices would orient itself perpendicular to its direction of motion. The reactance of these devices is inversely proportional to the AC frequency. The current leaving these devices is proportional to the time derivative of voltage. In a tank circuit, energy oscillates between the electric field of these devices and the magnetic field of an (*) inductor.** When these devices are in parallel, their namesake quantity is summed. That namesake quantity is proportional to both the dielectric constant and the area in the parallel-plate variety of these devices. For 10 points, name these circuit elements which store electric charge.

ANSWER: capacitors (accept parallel-plate capacitors) [*Writer's note*: The first clue refers to the Trouton–Noble experiment.]

<K. Li, Physics>

16. **It's not the Dalai Lama, but in a selection process for this title, a child chooses four relics out of thousands. On a holiday celebrating holders of it, unfried dough is consumed. A person with this title met its first holder, Wan, while looking for Raava before the Harmonic Convergence. The Ember Island Players portrayed the life of the successor to Kyoshi and (*) Roku in this title.** Children of one holder of this title, Bumi and Tenzin, supported another holder of it living in Republic City. That holder of this title began a relationship with Asami Sato at the end of a Nickelodeon series. For 10 points, name this title held by Aang and Korra, who can bend all four elements.

ANSWER: the Avatar

<Yue, Trash>

17. **This man's economic development program ended in the so-called "Great Break." A rebellion against this man started with the release of a 15-point resolution at a naval station. This man judged the Kronstadt Rebellion to be the most dangerous crisis his regime faced. In his "Testament," this man criticized many high ranking (*) Communist leaders.** While riding a sealed train carriage from Switzerland to his home country, this man wrote his "April Theses." This man implemented the New Economic Policy. After this man suffered a stroke, Leon Trotsky and Josef Stalin wrestled for power. For 10 points, name this first leader of the Soviet Union.

ANSWER: Vladimir Lenin (or Vladimir Ilyich Ulyanov)

<Suh, European History>

18. **This god is sometimes merged with his wife into one deity depicted as half female and half male. This god won his wife by killing a companion that was disguised as a whale. This god is often depicted as an eternal dancer whose (*) drum beats create and maintain the universe.** Symbols of this god include the trident and lingam. This god rides the white bull Nandi ["NAHN-dee"]. This god beheaded a child that was guarding Parvati's ["PAR-va-tee's"] chamber, but later replaced that son's head with an elephant's head. This god's throat is blue from drinking Halahala poison during the churning of the ocean. For 10 points, name this Hindu god of destruction.

ANSWER: Shiva (or Mahadeva)

<Duffy, Mythology>

19. **This non-German author inspired a Franz Liszt symphony ending with a "Magnificat." A painting inspired by this author features a sundial and a dove carrying poppies towards a woman in a red dress. Liszt wrote a virtuosic piano sonata "after reading [this author]." In another painting, this author is accompanied by a man in a red cowl on a boat. A group of the damned is depicted grasping at the title (*) *Barque* of that Eugène Delacroix ["DEL-ah-crah"] painting.** A marble sculpture of a couple about to perform the title *Kiss* was inspired by this author. For 10 points, Auguste Rodin's *The Gates of Hell* was inspired by what author's *Inferno*?

ANSWER: Dante Alighieri (accept either underlined answer)

<Yue, Other Arts>

20. A poem by this author addresses a flower “blossom[ing] bright with autumn dew” and concludes, “Hope, blossoming within my heart, / May look to heaven as I depart.” A poem by this author notes how “each [person] will chase / His favorite phantom” and tells the reader to “Take the wings / Of morning, pierce the (*) Barcan wilderness.” The addressee of another poem by this man “seek[s]... the plashy brink” and is asked “whither... dost thou pursue / Thy solitary way?” This poet of “To a Waterfowl” wrote a poem advising not to go “like the quarry-slave at night” to an “innumerable caravan.” For 10 points, name this author of “Thanatopsis.”

ANSWER: William Cullen **Bryant** [*Writer's note*: The first poem is “To the Fringed Gentian.”]

<Yue, American Literature>

21. For fluids, this quantity is given by the Newton–Laplace equation, which states that this quantity is equal to the square root of the adiabatic index times pressure divided by density. This value is at a minimum in the SOFAR channel. The Prandtl–Glauert singularity occurs at this value. When an object’s velocity exceeds this quantity, a (*) shockwave will form. The Mach number is defined as the ratio of the speed of an object to this quantity for the medium. In dry air at 20 degrees Celsius, this quantity is approximately 343 meters per second. For 10 points, name this quantity which is the speed at which acoustic waves travel.

ANSWER: **speed** of **sound**

<K. Li, Physics>

Bonuses

1. For 10 points each, answer these questions about Greek mythological figures who changed sex.

[e] A young boy named Siproites ["**sih-pro-EYE-tees**"] was turned into a girl for looking at this goddess of the hunt while she was naked. This goddess was the twin sister of Apollo.

ANSWER: **Artemis** (prompt on Diana)

[m] This blind prophet of Apollo was turned into a woman for seven years by Hera after striking two snakes with a stick.

ANSWER: **Tiresias**

[h] Among this group of legendary people from Thessaly was Caeneus, who was originally a woman but was turned into a man by Poseidon. These people, led by Pirithous, fought in the Centauromachy.

ANSWER: **Lapiths** ["**LAY-pith**"]

<Suh, Mythology>

2. In one novel, this character discusses Holbein's painting *Body of Dead Christ in the Tomb* with two friends, one of whom asserts that there is "no trace of beauty" in it. For 10 points each:

[h] Name this character, who accidentally breaks a Chinese vase belonging to his love interest's mother while ranting about Catholicism at a dinner party.

ANSWER: Prince **Myshkin** (prompt on *The Idiot*)

[e] This Russian author depicted the "holy fool" Prince Myshkin in his novel *The Idiot*. He is better known for writing *Crime and Punishment* and *The Brothers Karamazov*.

ANSWER: Fyodor **Dostoevsky**

[m] In *The Idiot*, Ippolit espouses this specific philosophy, which pervades the comically long suicide note that he reads at the Prince's birthday party. Bazarov espouses this philosophy in Ivan Turgenev's *Fathers and Sons*.

ANSWER: **nihilism** (prompt on atheism)

<Yue, European Literature>

3. The two strongest proponents of this legislation were called the "Terrible Twins." For 10 points each:

[h] Name this 1909 legislation passed during the ministry of H. H. Asquith that included a "supertax" on high-income earners and a 20% tax on land values.

ANSWER: The **People's Budget**

[m] The People's Budget was primarily developed by this Liberal politician and future British Prime Minister. He was the British representative at the Paris Peace Conference.

ANSWER: David **Lloyd George**

[e] Lloyd George was Prime Minister during the latter half of this global conflict, which began after Archduke Franz Ferdinand was assassinated. It was ended by the Treaty of Versailles ["**ver-SYE**"].

ANSWER: **World War I** (or **WWI**, the **First World War**, or the **Great War**)

<L. Li, British History>

4. Juan Gris paired these objects with a pipe and with a harlequin in two paintings, and Georges Braque painted a man holding one of them in a notable Cubist painting. For 10 points each:

[h] Name this object held by the title man of another painting, which was X-rayed to reveal an old woman, a mother with a child, and a calf. The artist of that painting created the *Portrait of Suzanne Bloch* in the same year.

ANSWER: a **guitar** (prompt on just a musical instrument)

[e] *The Old Guitarist* is a painting from the Blue Period of this Spanish artist of *Guernica* and *Les Femmes d'Alger* [*Olay dem-wah-ZELL dah-vin-YON*].

ANSWER: Pablo **Picasso**

[m] Picasso depicted himself as a Harlequin with a guitar in his painting depicting this many musicians. Picasso's *Les Femmes d'Alger* depicts *two more* than this number of figures.

ANSWER: **three**

<Yue, Painting>

5. For 10 points each, answer some questions about FRB 121102, a source of repeated electromagnetic pulses.

[e] FRBs are naturally-generated signals in this part of the electromagnetic spectrum. This least energetic part of the spectrum is used to transmit AM and FM signals on earth.

ANSWER: **radio**

[h] FRBs can be characterized by this quantity, which measures the time delay in detection of lower frequencies of radiation. This quantity arises from the scattering of lower frequency radiation off of charged particles, which effectively slows it down.

ANSWER: **dispersion measure**

[m] The polarization of FRB 121102's signal indicates that it is coming from near a magnetar or a pulsar, which are both types of these astronomical objects. These objects are supported by a namesake baryonic degeneracy pressure.

ANSWER: **neutron** star

<K. Li, Astronomy>

6. Georg Wilhelm Friedrich Hegel established the "original," "reflective," and "philosophical" variants of this field in a series of "Lectures on the Philosophy" of this field at the University of Berlin. For 10 points each:

[m] Name this academic field. A Francis Fukuyama essay proclaims "the end of" this concept, which signifies "the end point of mankind's ideological evolution," and Hegel proclaimed that Africa did not possess this concept.

ANSWER: **history**

[e] Fukuyama attributes "the end of history" to the denouement of this conflict, which was marked by "the ultimate triumph of Western liberal democracy" and the dissolution of the Soviet Union.

ANSWER: the **Cold War**

[h] Fukuyama repudiated this ideology, whose "legacy" he examined in *America at the Crossroads*. Irving Kristol was the "godfather" of this ideology, whose other practitioners include Donald Rumsfeld and Dick Cheney.

ANSWER: **neoconservatism** (accept word forms; accept **neocon**; prompt on conservatism)

<R. Li, Philosophy>

7. To avoid a snowstorm, one character with this profession stays with Magdalena and her husband Buck Scales, who is revealed to have murdered his children and several travelers. For 10 points each:

[h] Name this title profession of a novel in which a friend of Joseph Vaillant builds a certain structure in New Mexico with the help of Don Antonio Olivares.

ANSWER: an arch**bishop** (prompt on a Father, priest, and other similar answers with “Give the specific profession in the title of the novel.”)

[e] This author wrote about Jean Marie Latour’s establishment of a Catholic diocese in New Mexico in *Death Comes for the Archbishop*. She is better known for writing the novels *O Pioneers!* and *My Ántonia*.

ANSWER: Willa **Cather**

[m] This other writer wrote of Hazel Motes’s establishment of a “Church Without Christ” in her Catholic novel *Wise Blood*. She included Catholic themes in stories like “Everything That Rises Must Converge.”

ANSWER: Flannery **O’Connor**

<Yue, American Literature>

8. For 10 points each, answer the following about the work on immune checkpoint inhibitors as cancer therapeutics that won the 2018 Nobel Prize in Physiology or Medicine.

[h] This protein is expressed on activated immune cells and more broadly regulates immune response compared to CTLA-4. Tumor cells express this receptor’s ligand which allows the cancer to evade the immune system.

ANSWER: **PD-1** (or **programmed cell death protein 1**; prompt on PD-L1 or PD-L2 by asking “what is its receptor?”)

[m] Binding of the PD-1 ligand induces this process in antigen-specific T cells. This process is also called Type I cell death and produces characteristic blebbing and cell fragmentation.

ANSWER: **apoptosis** (or **programmed cell death**; prompt on cell death)

[e] The first anti-PD-1 therapeutics were monoclonal antibodies which are produced using cells derived from these lab animals. These small rodents belong to the genus *Mus*.

ANSWER: **mouse** (or **mice**; or ***Mus musculus***; do NOT accept or prompt on “rats”)

<K. Li, Biology>

9. One of these events names Mozart’s *Piano Concerto No. 26 in D major*. For 10 points each:

[h] Name these events, for which works like “My Heart is Inditing,” “Let Thy Hand Be Strengthened,” and “Zadok the Priest” were composed. William Walton set the *Te Deum* for one of these events.

ANSWER: **coronations** (accept specification of **coronations** of British monarchs or Holy Roman Emperors; accept equivalent descriptions like the **crowning** or **ascension** of monarchs)

[m] Mozart wrote a famous “Coronation” one of these works in C major in addition to his “Great” one in C minor. Haydn wrote one nicknamed for Lord Nelson, and Beethoven wrote one subtitled “solemnis.”

ANSWER: **masses** (accept ***Missa solennis***)

[e] This composer wrote anthems like the aforementioned “Zadok the Priest” for George II’s coronation, for whom he also wrote *Music for the Royal Fireworks*. While in England, he wrote the oratorio *Messiah*.

ANSWER: George Frideric **Handel**

<Yue, Music>

10. One set of rules for this activity was published in a namesake 1981 book by American game designer Steve Jackson. For 10 points each:

[e] Name this live-action game in which each player is assigned a “target” player to “eliminate,” which, depending on the variant being played, might consist of spraying them with a water gun or tagging them.

ANSWER: **Assassin** (or **Killer**)

[m] One notable movie assassin is this Keanu Reeves-played character, who is rendered “excommunicado” after killing Santino D’Antonio in the New York Continental Hotel. *Fortnite*’s “Reaper” skin resembles this character.

ANSWER: John **Wick**

[h] Another video game assassin is the methodical protagonist of the *Hitman* series, who is known only by the moniker “Agent [this number].” This number is comprised of the last two digits of the bar code tattooed on his head.

ANSWER: **47**

<R. Li, Trash>

11. Francis II was the last person to hold this title, which was abolished after a devastating defeat at the Battle of Austerlitz. For 10 points each:

[e] Name this title, the holders of which almost always concurrently held the title of “King of Germany.” Charles V controlled vast amounts of territory because he held this title *and* the kingship of Spain.

ANSWER: **Holy Roman Emperor** (or **Emperor of the Romans**; or **German-Roman Emperor**; accept **HRE**)

[m] This Holy Roman Emperor launched seven campaigns into Italy to assert his authority over the Papacy and the Lombard League. After winning the Battle of Iconium in the Third Crusade, he drowned in the Saleph River.

ANSWER: **Frederick I**, Holy Roman Emperor (or **Frederick Barbarossa**; or **Friedrich I**)

[h] According to legend, Frederick forced the nobles of this rebellious Italian city to remove a fig from a donkey’s rear with their mouths. About 700 years later, the Risorgimento began with an event titled “Five Days” of this city.

ANSWER: **Milan** (or **Milano**; accept Five Days of **Milan**)

<Suh, European History>

12. Two of these people, Soumitra and Narada, can change sex at will and travel through time, respectively, and a third, Sundari, is so beautiful that she blinded her mother at birth. For 10 points each:

[m] Name these people who were born at the moment of their country’s independence and are forcibly sterilized by the Widow. They include Saleem Sinai and Shiva-of-the-knees.

ANSWER: the **Midnight’s Children** (accept equivalents like the protagonists of *Midnight’s Children*)

[e] *Midnight’s Children* is a novel by this contemporary British-Indian author, against whom a *fatwa* was issued for his controversial book *The Satanic Verses*.

ANSWER: Salman **Rushdie**

[h] This character, another one of the *Midnight’s Children*, briefly becomes Saleem’s wife. She has a child, Aadam, during an affair with Shiva, before being killed during the Emergency.

ANSWER: **Parvati**-the-Witch

<Yue, World Literature>

13. Four buildings designed by different architects make up this city's "Block of Discord." For 10 points each:
[e] Name this Catalonian city that features the designs of Antoni Gaudí such as Casa Batlló ["BAHT-yo"] and Sagrada Família.

ANSWER: **Barcelona**

[h] Gaudí's work was in the Catalan style of *Modernisme*, which is considered to be a branch of this more general artistic style that was inspired by the curved line of plants and flowers.

ANSWER: **Art Nouveau**

[m] Another example of Gaudí's work is this public park that features a multicolored mosaic salamander popularly known as "el drac," or "the dragon."

ANSWER: **Park Güell**

<Suh, Architecture>

14. This day is the tenth day of Muharram, which is the first month of the Islamic calendar. For 10 points each:

[h] Name this day that commemorates the death of Husayn, the grandson of Muhammad, at the 680 Battle of Karbala. Unlike Ramadan, this remembrance does not involve obligatory fasting.

ANSWER: Day of **Ashura**

[m] Sunni ["SOO-nee"] Islam equates the Day of Ashura with this Jewish high holiday that marks the end of the Ten Days of Repentance.

ANSWER: **Yom Kippur**

[e] In Turkey, people eat this man's namesake "pudding" on Ashura to commemorate this man's Ark being set on dry land on Mount Ararat.

ANSWER: **Noah**

<Suh, Religion>

15. For 10 points each, answer some questions about the namesake of the Robinson annulation ["ANN-nu-lation"].

[e] Robert Robinson invented the symbol for this molecule consisting of a hexagon with a circle in the middle. That symbol captures the aromatic nature of this six-carbon molecule.

ANSWER: **benzene** (or **C₆H₆**)

[m] Robinson is also credited with developing the usage of these things to demonstrate a reaction mechanism. These things depict the movement of electrons to form and break bonds.

ANSWER: curved **arrows** (accept curly **arrows**; accept **arrow** pushing)

[h] Robinson proposed an incorrect tricyclic structure for this drug. John Sheehan performed the first total synthesis of this drug in an early demonstration of DCC peptide coupling.

ANSWER: **penicillin** (or **PCN**; prompt on **beta-lactam** antibiotics)

<K. Li, Chemistry>

16. A monument commemorating the victims of this event has a cross quoting Romans 12 and reads, "Vengeance is mine, thus saith the Lord. I shall repay." For 10 points each:

[h] Name these 1857 killings that occurred on the Baker-Fancher wagon train, in which 120 to 140 people were killed during these attacks.

ANSWER: **Mountain Meadows** massacre

[e] The massacre was perpetrated by Paiute Native Americans and members of this religious group founded by Joseph Smith. This group mostly settled in Utah.

ANSWER: Church of **Latter-Day Saints** (or **LDS**; or the **Mormon** Church)

[m] This man who was President of the Mormon Church at the time of the massacre banned priesthood of African-American males in the church. He also resisted the US Army in the Utah War, or "Buchanan's Blunder."

ANSWER: Brigham **Young**

<Suh, American History>

17. To end one poem in this collection, the speaker tells the addressee to “imprison me, for I, / Except you enthrall me, never shall be free, / Nor ever chaste, except you ravish me.” For 10 points each:

[h] Name this collection that also contains a poem that tells the addressee to “pour new seas in mine eyes, that so I might / Drown my world with my weeping earnestly.” That poem begins, “I am a little world made cunningly.”

ANSWER: ***Holy Sonnets*** (or ***Divine Meditations*** or ***Divine Sonnets***)

[m] The most famous of the *Holy Sonnets* tells this figure that “though some have called thee / Mighty and dreadful...thou art not so.” That poem ends by asserting to this figure that “thou shalt die.”

ANSWER: **Death**

[e] This Metaphysical poet of “A Valediction: Forbidding Mourning” and “The Flea” collected poems like “Batter my heart, three-person’d God” and “Death, be not proud” in his *Holy Sonnets*.

ANSWER: John **Donne**

<Yue, British Literature>

18. For 10 points each, answer some questions about particle detectors.

[m] This device contains supersaturated water or alcohol vapors through which charged particles make tracks. This device was superseded by a similar device named after the bubbles used to visualize the particles in both devices.

ANSWER: **cloud chamber**

[h] This meson was discovered in cosmic rays by Rochester and Butler using a cloud chamber. The decay of this particle provided the first indirect evidence that CP-symmetry could be broken.

ANSWER: **kaon** (or **K** meson)

[e] Direct evidence of CP-symmetry breaking was confirmed by this European research facility. The existence of the Higgs boson was confirmed in 2012 at the Large Hadron Collider found in this research facility.

ANSWER: **CERN** (or **European Organization for Nuclear Research**)

<K. Li, Physics>

19. For 10 points each, answer the following about the greatest Great Lake, Lake Superior.

[m] The largest American city on the shore of Lake Superior is the shipping hub of Duluth, in this state. Much of the iron ore shipped through Duluth came from this state’s Mesabi range.

ANSWER: **Minnesota**

[h] Lake Superior also contains this large island. The populations of wolves and moose on this island provide a rare and much-studied example of an isolated, single predator-prey relationship.

ANSWER: **Isle Royale**

[e] The primary outflow of Lake Superior is through St. Mary’s River, which separates twin cities named Sault Ste. Marie [“sool sent marie”] in Michigan and this most populous Canadian province. This province contains both Toronto and Ottawa.

ANSWER: **Ontario**

<CGH, Geography>

20. Mothers of the *desaparecidos* protested many of the deaths that occurred during this period. For 10 points each:
[h] Name this period of state terrorism during Jorge Videla's government from 1976 to 1983, a part of the wider Operation Condor. During this time, death squads known as "Triple A" made many political dissidents "disappear."

ANSWER: **Dirty War**

[e] The Dirty War was a brutal time in the history of this South American country that lost the Falklands War to the United Kingdom. In 1994, this country made its capital Buenos Aires an Autonomous City.

ANSWER: **Argentina**

[m] Videla came to power in 1976 via a coup against a politician with this last name. A popular Argentine political movement comes from this surname, shared by the politicians Juan and Isabel.

ANSWER: **Perón** (accept Juan **Perón** or Isabel **Perón**; accept **Peronism**)

<Suh, World History>

21. A Robert Burns poem titled for one of these objects compares a feeling to one of them "newly sprung in June" before comparing it to "the melodie / That's sweetly play'd in tune." For 10 points each:

[e] Name these objects, the subject of a line in Gertrude Stein's "Sacred Emily" stating, "a [this object] is a [this object] is a [this object]." In *Romeo and Juliet*, Juliet says that one of them "by any other name would smell as sweet."

ANSWER: **roses**

[h] This author wrote a poem about "cultivat[ing] a white rose" even "For the cruel person who tears out / the heart with which I live." Another of his poems begins, "If you've seen a mount of sea foam, / it is my verse you have seen."

ANSWER: José **Martí**

[m] José Hernandez adapted many of Martí's poems into this country's patriotic song "Guantanamera." Martí was a poet from this country, as was the writer Alejo Carpentier.

ANSWER: **Cuba**

<Yue, World Literature>