

2025 ACF Regionals

Packet J by Indiana A, UNC A, UW A

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Tossups

1. The first female judge from this region, who married Frederick William Beckley Sr., campaigned for women's suffrage with historian Emma Taylor. This region's first women's suffrage club was organized by Wilhelmine Dowsett, who married the businessman Hermann A. Widemann. A woman from this region often had meetings with Isaac Davis and John Young before the Olowalu Massacre. A meeting with Queen Victoria inspired a woman from this region to write the song "The Queen's Jubilee." That ruler's overthrow in this region was ruled illegal by the Blount Report. Rebels under a queen of this region tried to replace her with Sanford Dole for opposing the Bayonet Constitution. For 10 points, name this region ruled by the queens Ka'ahumanu and Lili'uokalani.

ANSWER: **Hawaii** [or **Hawai'i**; or **Hawaiian** Islands; prompt on islands of Hawaii like Oahu, Maui, or Big Island] <NS, American History>

2. The first in a set of three pieces by this composer opens with an E-flat minor theme over triplet arpeggios, followed by a restatement in the parallel major. Extremely slow interpretations of the first movement of a late piano sonata by this composer were popularized by Sviatoslav Richter, who switched from Bösendorfer to Steinway to record a fantasy by this composer that opens with thundering C major chords in a "long, short-short" rhythm. Brahms edited a set of "three piano pieces" by this composer initially intended to be a third set of four impromptus. This composer declared "the devil may play it" in reference to his challenging *Wanderer Fantasy*. For 10 points, name this German composer whose hundreds of *Lieder* include settings of Goethe in *Gretchen at the Spinning Wheel* and *Der Erlkönig*.

ANSWER: Franz **Schubert** [or Franz Peter **Schubert**] <MY, Classical Music>

3. In a play titled for one of these objects, Zhào Wǔniáng carries one of them and a portrait as she searches for her husband Cai Yong; that play by Yuan dramatist Gao Ming is titled "The Story of" one of these objects. The title poet carries one of these objects into battle instead of a weapon in Zeami's play *Atsumori*. A female demon becomes trapped inside a huge one of these objects in the Noh play *Dōjōji*. Blind itinerant "priests" named for and carrying a type of these objects recited *The Tale of the Heike*. Seated users of these objects appear with standing storytellers in Korean *pansori*. In performances of works like *Farewell My Concubine*, the voices of actors are mirrored by users of these objects, which include the *erhu*. For 10 points, kabuki theater is accompanied by performers on what objects such as the *shamisen*?

ANSWER: musical **instruments** [accept specific musical **instruments** like **drums**, **bells**, **lutes**, **pipas**, **flutes**, or **pipes**; accept classes of musical **instruments** like **percussion** or **woodwinds**] (Gao Ming wrote *The Story of the Lute*, also called *The Tale of the Pipa*.)

<TH, World Literature>

4. The first curtain wall to be designed by computer was in this architect's limestone- and marble-heavy design for the Morton H. Meyerson Symphony Center. This architect designed the Fountain Place skyscraper in that same city, where this architect added a redundant set of oval columns to a political office to assuage the mayor's fears that the 34-degree slope of its "inverted" walls was unstable. This architect used pink-tinted, bush-hammered concrete to emulate Anasazi cliff dwellings in his design for an NCAR facility. This architect of Dallas City Hall and Mesa Laboratory was taken on a road trip by *Rolling Stone* to brainstorm his "glass tent" design for a pyramid near Lake Erie. For 10 points, Cleveland's Rock and Roll Hall of Fame was designed by what Chinese-American architect?

ANSWER: I. M. **Pei** [or Ieoh Ming **Pei**]

<AP, Other Fine Arts>

5. A spell to heal this deity's horse is first conjured by a sun goddess's sister named Sinthgunt. An analogue of this god in the *Gesta Danorum* is rejected by King Gewar's daughter and dies three days after receiving a sword wound. After asking Modgud where this god has gone, one figure rides "down and to the North" before spurring his horse over a gate. This god's ship shakes the ground and causes fire to erupt when moved by Hyrrokin. The inability to answer a question about what his opponent whispered into this god's ear causes Vafthrudnir to lose a contest of wits. Váli reaches adulthood in one day to avenge this father of Foresti and husband of Nanna, who is forced to stay in Hel when Thokk refuses to weep. For 10 points, name this Norse god who is killed by Hodr with a mistletoe spear.

ANSWER: **Baldr** [or **Balder**; or **Baldur**; accept **Balderus**]

<UNC A, Mythology>

6. Specific representations of these mathematical objects called "spiders" are generators of a string diagram in ZX-calculus. Quantum circuits are represented using these objects in networks that can be described using Penrose notation. A multi-particle Hilbert space is constructed by applying an operation named for these objects that, when applied to spaces of dimensions m and n , produces one of dimension m times n . These objects can be divided into covariant and contravariant components. A generalization of trace on these objects called "contraction" applies when an index appears as both a subscript and superscript in Einstein notation. A product named for these objects is denoted by a times symbol inside a circle. For 10 points, name these objects that correspond to multilinear maps and whose rank-2 representations are matrices.

ANSWER: **tensors** [accept **tensor** products or **tensor** networks; prompt on multilinear maps until read]

<UNC A, Physics>

7. In a work titled for this place "in Late Antiquity," Averil Cameron analyzes the importance of "the division between east and west." Another work titled for this place begins by discussing "geography of a particular kind" and declares that "mountains come first." A series of works titled for this place's "society" was produced by Shelomo Dov Goitein ("SHLO-mo dohv GOY-tyne"), who analyzed the documents of the Cairo Genizah ("guh-NEE-zuh"). Another work titled for this place was prepared using the archives of Dubrovnik and Venice, and was written by a scholar who was mentored by Lucien Febvre ("loos-YAN FEV-ruh") and who coined the term *longue durée* ("long doo-RAY"). That work about this body of water is titled for it "in the Age of Philip II" and was written by Fernand Braudel. For 10 points, name this sea that divides southern Europe and northern Africa.

ANSWER: **Mediterranean** Sea [accept *The Mediterranean World in Late Antiquity*; accept *A Mediterranean Society*; accept *The Mediterranean and the Mediterranean World in the Age of Philip II* or *La Méditerranée et le Monde méditerranéen à l'époque de Philippe II*] (The second sentence refers to *The Mediterranean and the Mediterranean World in the Age of Philip II*.)

<Indiana A, Other History>

8. Polymerization of liquid mixtures containing this functional group can be delayed using “latent” reagents such as dicyandiamide powder. Most polymers named for this functional group derive from the BPA-containing monomer BADGE. Monomers of this functional group undergo anionic ROP to form polymers like PPO and PEO. A reaction that produces this functional group proceeds via a “butterfly mechanism.” A class of thermosets named for this functional group can be mixed with hardener to form quick-curing adhesives and coatings. This functional group can be synthesized by treating halohydrins with a base or reacting alkenes with a peroxy-acid like mCPBA. For 10 points, ethylene oxide is the simplest example of what highly-strained functional group consisting of a three-membered cyclic ether?

ANSWER: **epoxides** [or **oxiranes**; accept **epoxy** resins or poly**epoxides**; prompt on **ethers** until read]
<UNC A, Chemistry>

9. Kurt Freund’s research on one aspect of this field of study led to the development of the PPG device. A book titled for this field “in the Cultural Struggle” analyzed the failure of the bourgeoisie to reform this field in the Soviet Union and was written by Frankfurt School thinker Wilhelm Reich. Therapies targeting disorders in this field were developed by a research team that studied the role of Bartholin’s glands; that team is Masters and Johnson. To test the ideas of Eugen Steinach, the first institute to study this field was developed by Magnus Hirschfeld in Berlin. Alfred Kinsey’s research in this field led to the development of his namesake scale. For 10 points, name this field sociologists study to compare outcomes between straight and gay people.

ANSWER: **sexology** [or human **sexuality**; accept **sex** research; accept **sexuality** or **sexual orientation**; accept **sexual behavior**; reject “gender studies” or “transgender studies”]
<UNC A, Social Science>

10. In a novel in this language, a woman inspired by the Ghent Altarpiece compiles stories of animal cruelty into “Reports on Infamy.” Enigmatic, unlabeled maps litter a novel in this language featuring occasional analyses of “travel psychology” at airports. In 2022, Fitzcarraldo Editions published Jennifer Croft’s translation of a 900-page novel in this language about an 18th-century self-proclaimed messiah. A novel in this language follows a William Blake translator’s investigation of the murder of her neighbor Big Foot. The Swedish Academy jointly announced Peter Handke’s 2019 Nobel Prize in Literature win with the 2018 win of an author in this language who wrote *The Books of Jacob* and a novel composed of 116 vignettes, *Flights*. For 10 points, name this language used by Olga Tokarczuk (“toh-KAR-chook”).

ANSWER: **Polish** [or **Polska**] (The novel in the fourth sentence is *Drive Your Plow Over the Bones of the Dead*.)
<HG, European Literature>

11. An ordering of terms within these mathematical objects is denoted by the shorthand “grevlex.” A set of these objects is iteratively transformed by Buchberger’s algorithm to obtain a Gröbner basis. Solution sets to systems of equations defined by these objects are called algebraic varieties. Hilbert’s basis theorem applies to rings of these objects, which are formed by adjoining dummy variables to rings like the complex numbers. Gauss’s lemma concerns the irreducibility of these objects, whose solvability can be determined via their Galois (“gal-WAH”) groups. Vieta’s formulas provide explicit relations between solutions to these objects, which have no generic solution in degree five or higher by the Abel–Ruffini theorem. For 10 points, the fundamental theorem of algebra concerns the roots of what functions?

ANSWER: **polynomial**s [accept **monomials**; accept **polynomial** rings or **polynomial** equations]
<UNC A, Other Science>

12. This group's buildings contain three "immovable" and three "movable" jewels, such as the emblem-decorated "trestle-board." Confederate general Albert Pike collected essays about this group into a book about the *Morals and Dogma* of one of its Rites. Albert Mackey documented twenty-five "landmarks" of this group, including their separation into three "degrees" and their belief in a subordinate of Solomon named Hiram Abiff. The letter "G" is sometimes placed in the center of the "square and compasses" symbol used by this group. This group's "operative" origins gave way to a "speculative" focus on symbols such as the Eye of Providence. A "Grand Master" oversees meetings for members of this group at "Grand Lodges." For 10 points, name this fraternal organization originating from guilds of stoneworkers.

ANSWER: **Freemasons** [or **Freemasonry**] (The second line refers to the Scottish Rite.)

<AK, Religion>

13. *Word forms are acceptable.* A dynasty with this name was the first to use a cross made of five blue shields with white dots that is still used on Portugal's flag. In his book *The Autumn of the Middle Ages*, Johan Huizinga ("HOW-zin-ga") argues a state with this name made of patchwork fiefdoms sponsored an "overripe" chivalric court culture that awaited the Renaissance. An upper and lower state with this name were merged to form a kingdom sometimes called Arelat within the Holy Roman Empire. A cadet branch of the Valois ("VAL-wah") dynasty ruled a virtually-independent duchy with this name that often changed sides during the Hundred Years' War under dukes like Philip the Good and Charles the Bold. For 10 points, what name given to many different states in eastern France is synonymous with a dark shade of red associated with its wine?

ANSWER: **Burgundy** [or word forms like **Burgundian**; accept **Bourgogne** or **Borgonha** or **Burgundiae**]

<EC, European History>

14. Edward Troye mostly painted these animals, who are shown "at Play" and engaging in "feats" in two paintings by George Catlin. One of these animals appears next to two men who are whittling and bargaining in a painting by William Sidney Mount. Four of these animals appear in Thomas Eakins's painting of the civil engineer Fairman Rogers, which drew on a series made after a separate artist's acquittal for "justifiable homicide" of his wife's lover. The painting *A Dash for the Timber* depicts these animals and was made by an artist whose sculpture of one was gifted to Teddy Roosevelt. Leland Stanford financed a set of cabinet cards that aimed to show the motion of these animals by Eadweard Muybridge ("Edward MY-bridge"). For 10 points, Frederic Remington sculpted what type of animal being ridden by a "buster"?

ANSWER: **horses** [or **equine** or **equids**; accept specific types of horses like **broncos** or **stallions** or **mares**] (The second painting by George Catlin is "Comanche Feats of Horsemanship.")

<UW A, Painting and Sculpture>

15. The protagonist of a series by this author acquires "some landscapes by Hunt, Sully, and Hart" to begin his massive art collection after his marriage to Lillian Semple. A novel by this author ends with a "souvenir" that echoes its opening chapter by following a family of street preachers at dusk on a summer night. The railcar tycoon Charles Yerkes was fictionalized as Frank Cowperwood ("cooper-wood") in this author's *Trilogy of Desire*. In a novel by this author, a hit-and-run by the bellhop Sparsen forces the protagonist to flee from Kansas City to Chicago, then Lycurgus, New York. The murder of Grace Brown inspired a novel by this author in which Roberta Alden is hit with a camera and drowns in a lake, leading to the execution of Clyde Griffiths. For 10 points, name this author of *An American Tragedy*.

ANSWER: Theodore **Dreiser** [or Theodore Herman Albert **Dreiser**]

<Indiana A, American Literature>

16. A woman of this nationality promoted female education in *The Learned Maid* and joined a reform movement led by the Frenchman Jean de Labadie (“la-ba-DEE”). A thinker of this nationality claimed that there would be natural laws “even if God did not exist” and escaped from a castle in a chest of books. Jonathan Israel traced the “radical Enlightenment” to a thinker of this nationality who wrote a “book forged in Hell” that claims that the Bible should be viewed as a fallible historical text. A jurist of this nationality who wrote *Mare Liberum* is often called the father of international law. An excommunicated thinker of this nationality wrote a book “in Geometrical Order” that equates God and nature. For 10 points, thinkers of what nationality include Hugo Grotius and the author of *Ethics*, Baruch Spinoza?

ANSWER: **Dutch** [accept **Netherlandish**; accept **Netherlands** or **Dutch** Republic or the **United Provinces** of the Netherlands] (The philosopher in the first sentence is Anna Maria van Schurman.)

<TM, Philosophy>

17. Archaeologists in this country hope to find all fifty of the “Elliq-Qala,” or “Fifty Forts,” including castles at Guldursun and Toprak. Toxic dust storms cause chronic illnesses in this country’s depopulated city of Moynaq, home to a “cemetery of boats.” Most of the Karakalpak people live in this country around a river delta home to the cities of Nukus and Urgench. This country’s main ethnic group speaks the second most widely-spoken Turkic language, which is closely related to Uighur. The city of Andijan lies in this country’s section of the Ferghana Valley. Before the effects of irrigation for cotton growing, the Amu Darya met the Aral Sea in this country. For 10 points, what most populous country in Central Asia contains cities like Samarkand and Tashkent?

ANSWER: **Uzbekistan** [or Republic of **Uzbekistan**; or **O‘zbekiston** Respublikasi]

<EC, Geography>

18. Whole genome sequencing in members of this taxonomic group has revealed the presence of DNA segments called NUMTs (“new-mights”). Thomas Cavalier-Smith classified this taxonomic group as unikonts or bikonts based on their number of flagella. The inheritance of ESCRT (“escort”) protein complexes by this taxonomic group is cited as evidence for James A. Lake’s “eocyte hypothesis.” Exemplified by the TSAR (“T-sar”) clade, members of this taxonomic group have independently evolved a process called kleptoplasty. In a 1967 paper that also explained the 9-plus-2 arrangement of flagella, Lynn Margulis proposed a theory that this taxonomic group may have evolved after engulfing proteobacteria via endosymbiosis. For 10 points, name this domain of organisms whose cells have membrane-bound organelles and a nucleus.

ANSWER: **Eukaryota** [or **eukaryotes**; prompt on **Plantae** or **plants** or **Animalia** or **animals** or **Fungi** or **Protista** or **protists** by asking “can you be less specific?”]

<Indiana A, Biology>

19. This author and the “Environmental Tradition” subtitle a 1991 book by Jonathan Bate considered a foundational work of ecocriticism. The penultimate section of a long poem by this poet mentions “an ennobling interchange / Of action from without and from within.” This poet used an ABAB rhyme scheme in a poem in which the “fair works” of nature remind the speaker of “what man has made of man.” A poem by this author calls nature “the nurse, the guide, the guardian of my heart, and soul / Of all my moral being.” This poet of “Lines Written in Early Spring” wrote of re-encountering the “steep woods” and the “sylvan Wye” after “five summers, with the length / Of five long winters” in a nostalgic poem written in 1798. For 10 points, name the Romantic poet who wrote *The Prelude* and “Tintern Abbey.”

ANSWER: William **Wordsworth** (The Bate book is *Romantic Ecology: Wordsworth and the Environmental Tradition*.)

<TH, British Literature>

20. The Fugu Plan attempted to resettle Jewish refugees in this historical state after many fled this state after the murder of Simon Kaspé. Members of the Red Spear Society joined volunteer armies that resisted the “pacification” of this state. This state’s early ruling party, the Concordia Association, failed to maintain ethnic harmony that it promoted with a motto originally used by an earlier state, “Five Races Under One Union.” Bioweapons testing and human experimentation were performed by a group based in this state, Unit 731. The Soviet Union launched Operation August Storm to invade this state, which was established shortly after a false flag operation in the Mukden Incident. For 10 points, name this puppet state led by Puyi that the Japanese Empire organized in Northeast China.

ANSWER: **Manchukuo** [or **State of Manchuria**; or **Empire of Manchuria** or **Empire of Great Manchuria**; accept **Japanese**-occupied **Manchuria** until “Japanese” is read; accept Pacification of **Manchukuo**; prompt on **Manchuria**]

<UW A, World History>

Bonuses

1. A writer in this language was blacklisted in her home country after publishing a novel that retold a student uprising from seven perspectives. For 10 points each:

[10m] Name this language used to write the novels *Human Acts* and *We Do Not Part*. In an International Booker Prize-winning novel in this language, a video artist seeks to capture his sister-in-law's "Mongolian mark."

ANSWER: **Korean** [or **Hanguk**-eo] (The novel is *The Vegetarian*.)

[10e] The 2017 ousting of Park Geun-hye ("gun-HEH") ended the Korean government's blacklisting of authors like Han Kang, who in 2024 followed Annie Ernaux in being a female winner of this literary award.

ANSWER: **Nobel** Prize in Literature

[10h] The sci-fi novel *Counterweight*, written by an anonymous Korean author who uses this author's first name as a pseudonym, was translated into English in 2023. This author's best-known novel depicts the obsessive lesbian relationship between Nora Flood and Robin Vote.

ANSWER: Djuna **Barnes** [prompt on **Djuna**] (The novel is *Nightwood*.)

<UNC A, World Literature>

2. This character marries Brugmo, a neighboring chieftain's daughter, after winning a horse race at the age of twelve. For 10 points each:

[10h] Name this king of Ling who titles a million-verse epic originally from Tibet. In that epic, this king fights enemies such as his uncle Krothung and the neighboring Kingdom of Hor.

ANSWER: **Gesar** ("GAY-sar") [or **Kesar**; or **Geser**; or King **Gesar**]

[10m] In some versions of the Epic of Gesar, he is nursed by one of these animals. In Balinese myth, the demon queen Rangda fights the heroic king Barong, who is most often depicted as one of these animals.

ANSWER: **lions** [or **lionesses**; prompt on **cats**]

[10e] Scholars interpret Gesar as a manifestation of the *bodhisattva* Avalokiteshvara, who blessed one of these animals to marry the ogress Sinmo and become the progenitor of the Tibetans. The Buddha drops a mountain on top of a "king" of these animals, Sun Wukong.

ANSWER: **monkeys** [accept **apes**]

<Indiana A, Mythology>

3. The B2FH paper supported Fred Hoyle's hypothesis that all elements heavier than this element were not formed through BBN. For 10 points each:

[10h] Name this element that is proposed to sink beneath a star's atmosphere over time, thus increasing the rate of turbulent mixing. This element is the heaviest whose distribution is depicted on the Schramm plot.

ANSWER: **lithium** [or **Li**; accept **lithium**-7 or **Li**-7]

[10e] The brown type of these stars can be identified via the relative abundance of lithium. The white type of these low-mass stars forms after sun-like stars run out of fuel.

ANSWER: **dwarf** stars [accept brown **dwarfs** or white **dwarfs**]

[10m] A major source of lithium is the "classical" type of these phenomena, which are about 1,000 times brighter than their "recurrent" type. The "dwarf" type of these phenomena necessarily occurs [emphasize] *below* the Chandrasekhar limit.

ANSWER: **novae** [or **novas**; accept classical **novae** or recurrent **novae** or dwarf **novae**; reject "supernova" or "kilonova"]

<UW A, Other Science>

4. This country was paralyzed for three days by a general strike organized by the Action Committee that met in the rail junction of Olten. For 10 points each:

[10h] Name this country that adopted a 48-hour work week and a proportional representation model with no threshold after that strike.

ANSWER: **Switzerland** [or **Swiss** Confederation; accept Confédération **Suisse**; accept **Schweizerische** Eidgenossenschaft; accept Confederazione **Svizzera**; accept Confederaziun **Svizra**; accept Confoederatio **Helvetica**]

[10e] The general strike took place during this year and was caused in part by food shortages during the Spanish flu pandemic. The German revolution took place during this year, in which an armistice ended World War I.

ANSWER: **1918**

[10m] One of the strike's "Nine Demands" was this political goal, which was not achieved nationally in Switzerland until a 1971 referendum. One canton, Appenzell Innerrhoden, did not achieve this goal until a 1990 court case.

ANSWER: **women's suffrage** [or **voting rights** for **women**; prompt on **suffrage** or **voting rights** by asking "for whom?"]

<Indiana A, European History>

5. In a play, a character with this job leads Ivy, Mr. Tremayne, Hester, and Fred Bailey in a scene that personifies the hours of the day as philosophers like Spinoza and Plato. For 10 points each:

[10m] Give this job held by Mr. Fitzpatrick in a play about the Antrobus family. In another play, a character with this job replies, "the saints and the poets, maybe," to a dead woman's question.

ANSWER: **Stage Manager** [prompt on **narrators**]

[10e] This author included fourth wall-breaking stage managers in his plays *The Skin of Our Teeth* and *Our Town*.

ANSWER: Thornton **Wilder** [or Thornton Niven **Wilder**]

[10h] The hours are also equated to philosophers in a Wilder play titled [this sort of place] *Hiawatha*. In another play set in this sort of place, a Black man claims that killing white people "would make us all sane" to a woman who stabs him.

ANSWER: **train** cars [or **subway** cars; accept New York City **subways**; accept **metro** cars; accept **Pullman Car** *Hiawatha*; prompt on **cars**] (The other play is *Dutchman* by Amiri Baraka.)

<UW A, American Literature>

6. A psychologist from this country outlined a four-stage therapy process including absolute bed rest, light and heavy occupational therapy, and reintroduction into society. For 10 points each:

[10e] Morita therapy, a branch of clinical psychology heavily influenced by Zen Buddhism, was developed in what country?

ANSWER: **Japan** [or **Nippon**; or **Nihon**]

[10h] Morita therapy is often grouped with this active-directive psychotherapy developed by Albert Ellis. This form of cognitive behavioral therapy holds that people's false beliefs cause fixable disturbances in people's lives.

ANSWER: **rational emotive** behavior therapy [or **rational** therapy; or **REBT**]

[10m] Morita therapy was designed to address and diagnose a condition called *shinkeishitsu*, sometimes equated to this condition. Typical and atypical forms of this condition can be treated with haloperidol and clozapine.

ANSWER: **schizophrenia** [prompt on **psychosis**]

<NS, Social Science>

7. A real-life court case in this country inspired a 2022 film in which a pregnant novelist attends a trial for a case that resembles the myth of Medea. For 10 points each:

[10e] Name this country that produced Alice Diop's film *Saint Omer*. This country invited Danish director Carl Theodor Dreyer to depict the trial of one of its saints in the film *The Passion of Joan of Arc*.

ANSWER: **France** [or **French** Republic; or République **française**]

[10m] This 1960s sex symbol starred in Henri-Georges Clouzot's ("awn-ree ZHORZH kloo-ZOH's") legal drama *La Vérité* ("veh-ree-TAY"). Serge Gainsbourg sang "Bonnie and Clyde" with this blonde star of Jean-Luc Godard's film *Contempt*, who was often known by her alliterative initials.

ANSWER: Brigitte **Bardot** ("bree-ZHEET bar-DOH") [prompt on **BB**]

[10h] A divorced lawyer looks for love in this director's romcom *In Bed With Victoria*. This director supported the French pension protests in a speech after winning a Palme d'Or for a courtroom drama.

ANSWER: Justine **Triet** ("tree-YAY") (Triet's film *Anatomy of a Fall* won the 2023 Palme d'Or.)

<AP, Other Fine Arts>

8. Maimonides legendarily lived in a house in this country known as Dar al-Magana, or the "House of the Clock." For 10 points each:

[10m] Name this modern-day country where the first *mellah* for Jewish communities was created under the Marinid dynasty.

ANSWER: **Morocco** [or Kingdom of **Morocco**; or al-Mamlakah al-**Maghribiyah**]

[10h] This dynasty's power was effectively secured by a 1465 massacre of Jews in Fez sparked by Abd al-Haqq II's appointment of a Jewish vizier. This dynasty succeeded the Marinids and preceded the Saadi in its control over Morocco.

ANSWER: **Wattasid** dynasty [or al-**Wattāsiyūn**]

[10e] Under Muhammad ibn Yahya al-Sheikh, the Wattasid dynasty welcomed Jewish refugees following this event. Jews that lived in Morocco prior to this 1492 event, promulgated by the Alhambra decree, were known as *Toshavim*.

ANSWER: **expulsion** of Jews from **Spain** [accept **expulsion** of Jews by **Catholic monarchs**; prompt on **expulsion** of Jews by asking "from where?"; prompt on **Reconquista**]

<AK, World History>

9. When monitoring the pH of this organ, a Demeester score of 14.72 or higher indicates acid reflux disease, which may cause a premalignant condition in it named for surgeon Norman Barrett. For 10 points each:

[10e] Name this organ that can be damaged by upward movement of stomach acid while passing food from the pharynx to the stomach.

ANSWER: **esophagus**

[10m] Proton pump inhibitors are often used to treat acid reflux, and have largely replaced medications targeting this compound's H₂ receptors. Enterochromaffin-like cells release this compound to stimulate stomach acid production.

ANSWER: **histamine**

[10h] PPIs can also be used to treat this condition in which tumors that secrete gastrin cause excess stomach acid to be produced from parietal cells, creating peptic ulcers.

ANSWER: **Zollinger–Ellison** syndrome [or **Z-E** syndrome]

<MS, Biology>

10. This myth inspired a 10-movement orchestral piece featuring piano and ondes Martenot (“ond mart-NO”) whose four cyclic themes include the “statue,” “flower,” and “love” themes. For 10 points each:

[10e] Name this myth that provides the basis for a trilogy that includes the *Turangalila-Symphonie*. A Cornish knight names the dissonant opening chord of an opera titled for this myth by Richard Wagner.

ANSWER: **Tristan** and Iseult [or **Tristan** and Isolde; or *Tristan und Isolde*; or *Tristram ok Isodd*]

[10m] This composer of the symphonic suite *L’Ascension* included *Harawi* and the *Turangalila-Symphonie* in his “Tristan trilogy.”

ANSWER: Olivier **Messiaen** (“mess-YAWN”) [or Olivier Eugène Prosper Charles **Messiaen**]

[10h] Messiaen’s second wife Yvonne, who had this surname, played piano at the premiere of the *Turangalila-Symphonie*. Her sister with this surname recorded the symphony six times as an exponent of the ondes Martenot (“ond mart-NO”).

ANSWER: **Loriod** (“lor-YO”) [accept Yvonne **Loriod** or Jeanne **Loriod**]

<MY, Classical Music>

11. The 1912 Democratic National Convention took 46 chaotic ballots to choose a presidential nominee. Answer the following about the candidates, for 10 points each.

[10h] This Speaker of the House from Missouri, who had close ties to urban political machines, was the favorite before the convention but failed to get enough votes because Southern delegates had a veto.

ANSWER: Champ **Clark** [or James Beauchamp **Clark**]

[10e] Southern delegates favored Woodrow Wilson over Theodore Roosevelt and this other candidate, who won the election of 1908.

ANSWER: William Howard **Taft**

[10m] The balloting took so long because of so-called favorite son candidates, including an Indiana governor with this surname. An initiative launched by a politician with this surname replaced one named for Henry Morgenthau.

ANSWER: **Marshall** [or Thomas **Marshall**; or George C. **Marshall**]

<Indiana A, American History>

12. Metalworkers on this island produced elaborate “book shrines” called *cumdachs* that were used as reliquary boxes to hold manuscripts. For 10 points each:

[10e] Name this island whose metalworkers made the Cross of Cong and the Ardagh (“ARR-da”) Chalice. A famed illustrated manuscript of the Gospels is named for this island’s town of Kells.

ANSWER: **Ireland** [or **Éire**; or **Airlann**]

[10m] The goldsmith Billfrith made the now-lost elaborate metal casing for this 8th-century illuminated manuscript. This collection of gospels is named for an island off the coast of Northumberland.

ANSWER: **Lindisfarne** Gospels

[10h] Celtic metalworkers pioneered a “pseudo-penannular” style of these objects, such as ones named for Hunterston and Tara. A bone in the human body takes its name from the Roman term for these clothing objects.

ANSWER: **brooches** (“broaches”) [or **clasps**; prompt on **fibulae** or **fibulas**; prompt on **clamps** or **pins** or **clips** or **fasteners**]

<TM, Painting and Sculpture>

13. Patanjali (“puh-TUN-juh-lee”) wrote a collection of sutras on this practice that established its “eight limbs,” including the *yamas* (“YUM-uhs”) and the *niyamas* (“NEE-yum-uhs”). For 10 points each:

[10e] Name this general Indian spiritual practice of controlling the mind and body. Western adaptations of this practice’s “hatha” (“HUH-tuh”) form involve poses that stretch the body.

ANSWER: **yoga** [accept hatha **yoga**; accept Ashtānga **yoga**; accept **Yoga Sūtras**]

[10h] The fourth of Patanjali’s eight limbs of yoga is named for focusing on this concept. The ritual by which *mūrtis* (“MOOR-thees”) are consecrated is named for their imbuing with this concept, which is the Sanskrit term for life energy.

ANSWER: **prāna** [accept **prānāyāma**; accept **prāna pratishtha**; prompt on **breath**]

[10m] This figure identified *yoga* with the state of meditative consciousness known as *samādhi* in his *bhāshya*, or commentary, on the *Yoga Sūtras*. This figure legendarily narrated a work to Ganesha, who transcribed it with one of his tusks.

ANSWER: **Vyāsa** (“V’YAH-suh”) [or Veda **Vyāsa**; or Krishna **Dvaipayana**] (That work is the *Mahābhārata*.)

<UNC A, Religion>

14. The Wightman axioms give requirements for these things, which have infinitely many degrees of freedom. For 10 points each:

[10m] Name these things that permeate space and are characterized by their Lagrangian density, such as in the Klein–Gordon equation. Particles arise from excitations in these things.

ANSWER: **fields** [or quantum **fields**]

[10h] Haag’s theorem argues that quantum field theories are ill-formed because these representations cannot exist. In this representation, both states and operators are time-dependent.

ANSWER: **interaction picture** [accept, but DO NOT REVEAL, **Dirac picture**]

[10e] This originator of quantum field theory names a relativistic generalization of the Schrödinger equation. This British physicist’s namesake delta function is infinite at the origin and vanishes everywhere else.

ANSWER: Paul **Dirac** [accept **Dirac** equation or **Dirac** delta function]

<Indiana A, Physics>

15. Weathered photographs of a floor plan and a commemorative stamp bookend a celebrated nine-page sentence in this novel that describes the horrors of the Theresienstadt (“tuh-RAY-zin-shtott”) concentration camp. For 10 points each:

[10m] Name this W. G. Sebald novel about an architectural historian and *kindertransport* refugee who travels to Prague in order to discover the fates of his birth parents.

ANSWER: **Austerlitz**

[10h] James Wood’s introduction to *Austerlitz* compares the novel’s style of nested dialogue to that of this author. In a novel by this author, Roithamer builds his sister a house he calls the “Cone” in a forest.

ANSWER: Thomas **Bernhard** [or Nicolaas Thomas **Bernhard**] (The novel is *Correction*.)

[10e] The first photographs within *Austerlitz* juxtapose a close-up of owl eyes with the eyes of this philosopher. In Bernhard’s novel *Correction*, Roithamer’s life parallels that of this author of the *Tractatus Logico-Philosophicus*.

ANSWER: Ludwig **Wittgenstein** [or Ludwig Josef Johann **Wittgenstein**]

<HG, European Literature>

16. An arrest warrant was issued for this businessman in the US after the market-research company Hindenburg accused him of stock manipulation. For 10 points each:

[10h] Name this billionaire who was charged in November 2024 with spending over 250 million dollars to secure green energy contracts.

ANSWER: Gautam **Adani** [reject “Ambani”]

[10e] Gautam Adani, a supporter of the BJP, has been accused of corruption for his close ties to this prime minister of India.

ANSWER: Narendra **Modi** [or Narendra Damodardas **Modi**]

[10m] Adani happened to be in one of these places named after the Taj Mahal when it was assaulted during the 2008 Mumbai terrorist attacks.

ANSWER: **hotels** [accept Taj Mahal Palace **Hotel**]

<Indiana A, Current Events>

17. A novel’s final stream-of-consciousness passage frequently intersperses this word with images of a “mountain flower” from Gibraltar and a man whose “heart was going like mad.” For 10 points each:

[10m] Name this final word in James Joyce’s *Ulysses*. In that novel, Molly Bloom ends her monologue by saying “I said” and “I will” with this word before, between, and after those phrases.

ANSWER: **yes** [accept “**yes** I said **yes** I will **yes**”]

[10h] In the “Scylla and Charybdis” episode of *Ulysses*, Stephen says “yes, [this word],” calling it the “Word known to all men.” The Parodist voice from the “Cyclops” episode mockingly uses this word four times in a five-word sentence whose third word is “to.”

ANSWER: **love** [or **loves**; accept “**Love loves to love love.**”]

[10e] This final novel by Joyce frequently repeats words and coined new ones, like “quark.” This challenging novel is titled for an Irish folk song about a service for a dead hard-drinking man.

ANSWER: ***Finnegans Wake***

<UNC A, British Literature>

18. In an 8th-century BCE inscription in these two languages, Azatiwada extends “Adanian territory toward the west on this side, and toward the east on this side.” For 10 points each:

[10h] Name these two languages of the Karatepe bilingual from southern Anatolia. The use of one of these languages instead of Greek on that inscription may be explained by a “migrationist” hypothesis in which elites who didn’t use the other occupied Cilicia after the Hittite collapse.

ANSWER: **Luwian** AND **Phoenician** [accept **Luvian** or **Luish** or Hieroglyphic **Luwian** in place of “Luwian”; accept **špt kn’n** in place of “Phoenician”]

[10e] The burial of an invading colonizer may be mentioned in the oldest detailed Phoenician inscription from this Eastern Mediterranean island, whose name gave rise to the Romans’ name for copper.

ANSWER: **Cyprus** [or **Kýpros**]

[10m] This city’s Ahiram sarcophagus is considered the earliest fully-developed use of the Phoenician script. The name of this Levantine city has been linked to a Greek word for papyrus, which was imported through it.

ANSWER: **Byblos** [or **Jebeil** or **Jbeil** or **Jubayl** or **Gubla** or **Kebny** or **Gebal** or **Geval**]

<AT, Other History>

19. In *Consciousness Explained*, Daniel Dennett uses this author to name a theory of memory illusion by which a false memory overwrites a correct perception, in contrast to Stalinesque theory. For 10 points each:

[10e] Name this novelist whose impact on the political philosophy lexicon includes coining the terms doublethink, Newspeak, and Big Brother.

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

[10m] Orwell is called “the last intellectual in Europe” and said to depict “institutional cruelty” in this neo-pragmatist philosopher’s book *Contingency, Irony, and Solidarity*.

ANSWER: Richard **Rorty** [or Richard McKay **Rorty**]

[10h] This philosopher rejected Rorty’s reading of Orwell for focusing on cruelty over the subversion of beliefs. That critique appears in an “Essay in Genealogy” by this philosopher titled *Truth and Truthfulness*.

ANSWER: Bernard **Williams** [or Bernard Arthur Owen **Williams**]

<Indiana A, Philosophy>

20. This compound is formed from aspartate in the Hell–Volhard–Zelinsky halogenation or by the combination of acetaldehyde, ammonia, and cyanide. For 10 points each:

[10m] Name this amino acid with a methyl side chain.

ANSWER: **alanine** [or **Ala**; or **A**]

[10e] The biosynthesis of alanine can proceed via the reversible reductive amination of this compound by ALT. This three-carbon compound is the product of the dephosphorylation of PEP at the end of glycolysis.

ANSWER: **pyruvate**

[10h] The reaction of this alanine isomer and pyruvate produces malonate-semialdehyde and its standard isomer. Histidine and this alanine isomer are combined to synthesize carnosine.

ANSWER: **beta**-alanine

<Indiana A, Chemistry>