

## 2025 ACF Regionals

Packet L by Chicago A, Harvard B, Texas B

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### Tossups

1. A candidate in this election accused of corruption with the former president's son used terms like the "PRIAN candidate" and the "corrupt one" to address another candidate during a debate. Ten people were killed after strong winds caused a stage to collapse during a rally in this election. A new alliance whose name translates as "Let's Keep Making History" won this election. The winner of this election endorsed the previous administration's "hugs not bullets" approach to crime and has continued its tradition of morning broadcasts known as *mañaneras*. Citizens Movement candidate Jorge Máynez finished in third in this election, behind the PAN and MORENA. For 10 points, name this election in which Claudia Sheinbaum defeated Xóchitl Gálvez ("SHOH-chee-tull GAL-vez") to succeed AMLO as President.

ANSWER: **2024 Mexican** presidential election [or **2024 Mexican** general election; accept answers describing the **2024** election in **Mexico**; prompt on **Mexican** presidential election or **Mexican** general election by asking "in what year?"; reject answers describing a "2024 election" or "election in 2024" that do not include "Mexico"]  
<Chicago A, Current Events>

2. This composer depicted a character wandering alone with the bass clarinet and bassoon theme "dotted-half E [pause], B C D [pause], A B C" that opens a movement marked *Lento lugubre*. A scathing letter written [emphasize] to this composer signed by one "who sincerely loves you" led to the destruction of the early work *Fatum*. A "symphonic fantasy" by this composer is often contrasted with Liszt's *Dante* symphony on the same subject. Mily Balakirev suggested the transition between "strife" and "love" themes in a piece this composer styled an "Overture-Fantasy." This composer of the tone poem *Francesca da Rimini* wrote a programmatic "symphony in four scenes" based on Lord Byron's drama *Manfred*. For 10 points, name this Russian composer of the *Romeo and Juliet Fantasy Overture* and the *Pathétique* symphony.

ANSWER: Pyotr Ilych **Tchaikovsky**  
<MY, Classical Music>

3. Members of an expedition from this modern-day country [emphasize] in another country were ambushed at Lafoole, initiating a campaign against this country primarily led by the Bimaal clan, the Banadir resistance. This country recruited Dubat soldiers to manage their occupation of the Majeerteen and Hobyo Sultanates. This country's defeat of Bahta Hagos's revolt and victory at the Battle of Coatit began a war that this country lost due to guns provided by Nikolai Leontiev and the Russian Empire. A misinterpretation led this country to attempt a failed invasion of its fellow signatory of the Treaty of Wuchale ("wuh-CHAH-lay"). This country recruited Eritrean ascari troops to fight in a battle in which they were defeated by Menelik II. For 10 points, name this European colonial power repulsed at the Battle of Adwa by the Ethiopian Empire.

ANSWER: **Italy** [or **Italia**; or Kingdom of **Italy**; or Regno d'**Italia**; accept First **Italo**-Ethiopian War after "Ethiopian" is read]  
<AK, World History>

4. This author is thematically paired with Machado de Assis (“ma-SHAH-doo jee ah-SEESE”) in a chapter of Edwin Frank’s book *Stranger Than Fiction*. That chapter highlights a novel by this author in which a businessman ostracized for his love marriage fails to understand a koan about his face before birth. In a novel by this Anglophilic author of *The Gate*, a man is enraged when children put grasshoppers in his bed. One of this author’s characters commits suicide after the death of an admiral, in part because as a young man he stole a landlady’s daughter from his friend K, and is called “Sensei” by a nameless student narrator. One of this author’s title characters is a math teacher who beats up the vice principal Red Shirt before moving to Tokyo to live with the servant Kiyo. For 10 points, name this Meiji-era author of *Kokoro* and *Botchan*.

ANSWER: Natsume Sōseki [or Natsume Soseki; or Natsume Kin’nosuke]

<Chicago A, World Literature>

5. A high-frequency form of this technique can measure nanomolar changes in biomolecule concentration in a minimally invasive fashion. A form of this technique produces a characteristic peak-to-peak separation between E-sub-*pc* and E-sub-*pa* of “57 over *n*” when applied to a reversible process. The highest value measured in one form of this technique is proportional to the square root of the product of the diffusion constant and scan rate according to the Randles–Ševčík (“shev-CHEEK”) equation. This technique’s input can be adjusted stepwise to produce a staircase pattern. A form of this technique produces closed, “duck-shaped” curves when plotting current over time. For 10 points, name this electrochemical technique where the potential of an electrode is varied, which comes in “linear sweep” and “cyclic” forms.

ANSWER: voltammetry [accept linear-sweep voltammetry or cyclic voltammetry; accept fast-scan cyclic voltammetry; prompt on LSV or CV or FSCV]

<Chicago A, Chemistry>

6. A function named for a type of this phenomenon is defined as the half-Fourier transform of a friction coefficient in Götze and Wölfle’s derivation of the generalized Drude formula. A type of this phenomenon was observed in the relaxation of a polyvinyl acetate sample by A. J. Kovacs. A type of this phenomenon is induced in a single layer of connected spin glasses that “update” until a local energy minimum is reached. A type of this phenomenon is the [emphasize] *first* word in a device’s portmanteau name coined by Leon Chua; that device is characterized by the derivative of magnetic flux with respect to charge and is dubbed the “fourth fundamental circuit element.” For 10 points, a resistor-like circuit element has a name describing what phenomenon in which a system is dependent on its previous states?

ANSWER: memory [accept memristors or memory function; prompt on hysteresis; prompt on learning; prompt on neuron activation]

<Chicago A, Physics>

7. This event’s organizers included Mary Brewster and Susanna White, the latter of whom had a son named Peregrine. Some historians hypothesized that a version of this event occurred 56 years earlier under the direction of Pedro Menéndez de Avilés. The 19th-century preacher Alexander Young may have coined the name for this event in his edition of Edward Winslow’s account. Since 1970, Cole’s Hill has been the site of an annual commemoration of this event known as the National Day of Mourning. The “myth” of this event was promoted by Sarah Josepha Hale, who campaigned for a holiday based on it tied to accounts featuring Samoset, Tisquantum, and Massasoit. For 10 points, name this 1621 harvest festival probably attended by 50 English settlers and 90 Wampanoags at Plymouth.

ANSWER: First Thanksgiving [accept answers describing the feast or meal between the Pilgrims and Native Americans in 1621]

<Chicago A, American History>

8. Abbey Lincoln posed in an orange dress worn in this film on the cover of *Ebony*, but then burned it to retaliate against critics of her belief that it over-sexualized her. Bodybuilders and acrobats are extras in a scene in this film that ends with one of its stars being accidentally knocked into a pool. Near the end of this film, one of its stars dances in time with a judge's gavel and wears a fur coat in a French courtroom to impersonate her friend. This film's credits occur during its opening duet, "Little Rock." One of this film's stars sings "A kiss on the hand / May be quite continental" in a scene that inspired the pink dress in the music video for "Material Girl" by Madonna. For 10 points, in what 1953 Howard Hawks romcom do Jane Russell and Marilyn Monroe sing "Diamonds are a Girl's Best Friend?"

ANSWER: **Gentlemen Prefer Blondes**

<AP, Other Fine Arts>

9. In a play by an author with this first name, the line "I was born, sir, when the crab was ascending, and all my affairs go backward" is spoken by the illiterate astrologer Foresight. A playwright with this first name coined the phrase "kiss and tell" in a play in which Angelica receives a bond from Sir Sampson Legend before declaring her love for Valentine. That playwright with this first name wrote about Mirabell foiling a blackmail plot by Fainall and marrying Millamant. The line "Music has charms to soothe a savage breast" appears in *The Mourning Bride* by a playwright with this first name, but is often attributed to another author with this name who wrote "all that glisters is not gold." For 10 points, give the first name of a Restoration dramatist surnamed Congreve and the author of *The Merchant of Venice*.

ANSWER: **William** [accept **William** Congreve or **William** Shakespeare]

<Chicago A, British Literature>

10. *The original-language term, its word forms, or its English translation are acceptable.* Chapter 14 of the *Bhagavad Gita* states that this concept, unlike its counterparts, is "purer" but causes "bondage" through attachment to happiness and knowledge. The Vedānta tradition emphasizes the Upanishads' use of a term to describe Brahman that pairs this concept with *chit*, or consciousness, and *ānanda* ("AH-nun-duh"), or bliss. India's national motto comes from the *Mundaka Upanishad*'s line that this concept "alone triumphs." Along with *rajas* ("RUH-juhs") and *tamas* ("TUH-muhs"), this concept names one of the *gunas* that is the basis of an Ayurvedic vegetarian diet. A grouping of this concept includes *samudaya* and *nirodha*, or "cessation." This concept names a method of non-violence developed by Mahatma Gandhi that pairs it with its "force," or *graha*. For 10 points, in Buddhism, *dukkha* belongs to a group of "four noble" examples of what concept?

ANSWER: **sat** [accept **satya**; accept **sattva** or **sattvic**; accept **truth** or **essence** or the **absolute**; accept **sincerity**; accept **satyagraha**; accept Four Noble **Truths** or *cat varyarya* **satyani**; accept "**Truth** alone triumphs" or "**Satyameva Jayate**"; accept **satchitananda**]

<AK, Religion>

11. *Word forms acceptable.* The path from "attitudes" to this concept provides the subtitle of *Live in Your Head*, an avant-garde exhibition curated by Harald Szeemann ("ZAY-mahn"). Different choices for this title concept mirror different feelings, according to Susanne Langer's follow-up to *Philosophy in a New Key*. Clive Bell, who theorized this concept's "significant" type, promoted a school of art theory named for it that led fellow adherent Clement Greenberg to champion abstract expressionists like Jackson Pollock. That school named for this word stresses a work's visual properties, such as flatness, over its content. This is the shorter noun in a modernist slogan advocating that a building's design be driven by its purpose. For 10 points, name this four-letter word for the configuration of an artwork that, according to Louis Sullivan, "follows function."

ANSWER: **form** [or word forms like **formal** or **formalism**] (Szeemann's exhibition was titled *Live in Your Head: When Attitudes Become Form*.)

<TM, Painting and Sculpture>

12. A protein serving as a transfer agent into one of these complexes was the first “blue copper” protein to have its antiparallel beta barrel structure characterized. Proteins like R-PE and B-PE create rods of stacked cylindrical subunits in one of these complexes called phycobilisomes. A subunit of one of these complexes goes through five states labeled S-sub-0 to S-sub-4 in a cycle named for Bessel Kok. Three clusters in one of these complexes labelled Fx, Fa, and Fb facilitate electron transfer to ferredoxin. Cytochrome b6f, plastoquinone, and plastocyanin shuttle electrons between two of these complexes, one of which contains the oxygen-evolving complex. For 10 points, name these protein complexes inside thylakoid membranes involved in the light-dependent reactions of photosynthesis, which are labeled I and II.

ANSWER: **photosystems** [accept **photosystem I** or **photosystem II** or **PS I** or **PS II**; accept **P680** or **P700**; accept **plastocyanin-ferredoxin oxidoreductase** or **water-plastoquinone oxidoreductase**; prompt on **thylakoids** or **thylakoid membranes** until read; prompt on **chloroplasts**; prompt on **oxygen-evolving complex** until read by asking “what structure is that located within?”]

<MS, Biology>

13. This author suggested the idea for, and was the dedicatee of, a musical about Steeltown U.S.A.; that musical by Marc Blitzstein is *The Cradle Will Rock*. While waiting to lodge a complaint, a woman created by this author sings of how, when young and proud, a bird told her of her future passivity. In lyrics written by this author, the singer repeats “I tell you we must die” while looking for “the next whiskey bar.” The prostitute Yvette sings the “Fraternization Song” in a play by this author that ends with the protagonist singing a lullaby and hitching herself to a wagon. This playwright wrote the lyrics to “Alabama Song” and a song about “old Macheath” titled “Mack the Knife.” For 10 points, Kurt Weill (“vile”) co-wrote *The Threepenny Opera* with what German author of *Mother Courage and Her Children*?

ANSWER: Bertolt **Brecht** [or Eugen Berthold Friedrich **Brecht**]

<TM, European Literature>

14. A contemporary historian remarked that a successful siege conducted by this Greek city merely taught the defenders “not to let a river run through one’s walls.” The acquittal of Sphodrias (“SFOH-dree-us”) after he tried to seize a port was dubbed this city’s “most unjust verdict.” Forces from this city were ambushed at Lechaeum (“leh-KEE-um”) by peltasts that were led by Iphicrates (“if-ICK-ruh-teez”). A diplomat from this city negotiated a treaty within which King Artaxerxes II gained control over the Greeks of Asia; that Peace of Antalcidas (“an-TAL-sid-us”) ended the Corinthian War. An alliance at the Second Battle of Mantinea opposed this city’s ruler Agesilaus II (“uh-jess-ih-LAY-us the second”). This city was defeated by Pelopidas (“peh-LOP-id-us”) and Epaminondas (“ep-uh-min-ON-duss”) at the Battle of Leuctra, a victory for Thebes. For 10 points, name this city that attained hegemony after defeating Athens in the Peloponnesian War.

ANSWER: **Sparta** [or **Spártē** or **Lacedaemon**] (The first line, recorded in Xenophon’s *Hellenica*, refers to the siege of Mantinea.)

<AT, Other History>

15. In one of these places, a novel's narrator puzzles over a "boggy, soggy, squitchy picture" in a "thoroughly besmoked" oil painting. A *Decameron*-esque collection titled for this sort of place includes multiple stories from a student, a Sicilian, and a Spanish Jew, and is set in Sudbury, Massachusetts. In a novel, an old lady cries out "clam or cod?" in one of these places, where the narrator first meets a man smoking a tomahawk pipe. "Paul Revere's Ride" appears in a collection of "Tales of" one of these places by Henry Wadsworth Longfellow. A novel's narrator becomes "bosom-friends" with a former prince of Rokovoko at one of these places called Spouter. For 10 points, early chapters of *Moby-Dick* are set in what sort of place where Queequeg and Ishmael are lodgers?

ANSWER: inns [accept Wayside Inn or Sudbury Inn or *Tales of a Wayside Inn*; accept Spouter Inn; prompt on hotels or lodges]

<HG, American Literature>

16. Acehnese ("ah-chay-NEEZ") lacks this grammatical feature everywhere except in its first-personal pronouns. Classical Arabic's word for "camel" uniquely admits eight possible options for this grammatical feature. The Tanoan languages Kiowa and Jemez ("HAY-mez") feature a rare "inverse" form of this grammatical feature, which marks whether this feature has the expected status for its noun class. Besides recursion and color, Daniel Everett argued that the Pirahã language lacks both this feature and any words for related concepts. The "paucal" form of this feature is most closely approximated by the English phrase "a few." For 10 points, name this grammatical feature in which words are modified according to the quantities involved, such as English's singular and plural.

ANSWER: grammatical number [accept quantity until read; accept singular or plural until read]

<Chicago A, Social Science>

17. A group of participants in one of these events were known as the "Dirty Thirty" and were supported by the WAPC. One of these events led to the creation of a contingency plan by MP Nicholas Ridley. A party leader publicly broke with a leader of one of these events after the death of cab driver David Wilkie. During one of these events, nearly 100 people were arrested during the Battle of Orgreave. Mark Ashton led a group of lesbian and gay people who supported participants in one of these events. One of these events that lasted from 1984 to 1985 began with a walkout at the Cortonwood Colliery and was led by NUM president Arthur Scargill. For 10 points, what kind of event occurred after Margaret Thatcher announced plans to close supposedly uneconomic pits in northern England?

ANSWER: coal miners' strikes [accept coal strikes; prompt on marches by asking "during what sort of larger movement?"; prompt on strikes by asking "by whom?" prompt on miner's strikes by asking "mining of what resource?"] (The WAPC is Women Against Pit Closures.)

<Chicago A, European History>

18. During the funeral games of Patroclus, a man from this region won an archery contest after he invoked Apollo when his opponent did not. A disguised Odysseus lies to Athena, Eumaeus, and Penelope that he is from this region. Paris abducted Helen while Menelaus was attending a funeral in this region. The gods set a plague upon this region after a king promised Poseidon that he would sacrifice the first living thing he saw upon returning. Another king of this region won a battle against the king of Megara by tricking his daughter Scylla into cutting a purple lock of his hair. The murder of that King's son, Androgeus, led Athens to send a yearly tribute of fourteen people to this island, which was led during the Trojan War by Idomeneus. For 10 points, name this island ruled by Minos that held a labyrinth underneath Knossos.

ANSWER: Crete [or Kriti; or Krētē]

<Harvard B, Mythology>

19. In functional analysis, this noun denotes linear functionals that act on compactly-supported test functions, which define a namesake generalized derivative. Methods that are “[this noun]-free” are also called “nonparametric” and include the Kolmogorov–Smirnov test. A letter that stands for this noun appears above the arrow in the central limit theorem, which concerns “convergence in [this word].” This noun appears in the name of a class of increasing, right-continuous functions that converge to zero and one at minus and plus infinity. Those functions, which are found by integrating probability density functions, are written capital F and preface this noun with “cumulative.” For 10 points, give this word for the spread of probabilities taken by a random variable, such as the Poisson or binomial.  
ANSWER: **distribution** [or word forms like **distributional** or **distributed**; accept **distributional** derivative; accept **distribution**-free; accept convergence in **distribution**; accept cumulative **distribution** function]  
<TM, Other Science>

20. A 1637 work lists two ways of identifying these objects based on their “organs,” sometimes called the “language test” and “action test.” One of these objects partly titles a materialist 1747 treatise that denies the existence of the soul, which forced its author Julien de La Mettrie to flee France. A philosopher who supposedly made one of these objects that was thrown off a ship presented a view named for a “beast” one of them in his *Treatise on Man*. One of these tangible objects appears in a 1949 metaphor that critiques the “category mistake” of comparing the mind and body. In that image from *The Concept of Mind*, Gilbert Ryle likened Cartesian dualism to a “ghost in” one of these objects. For 10 points, what sort of object is assessed for the ability to think in the “imitation game,” or Turing test?  
ANSWER: **machines** [accept **automaton** or **automata**; accept **computers** or **robots**; accept ghost in the **machine**; prompt on **dolls** or **baby** or **babies**] (The first sentence is from Descartes’s *Discourse on Method*.)  
<TM, Philosophy>

## Bonuses

1. As part of this campaign, the US Navy opened fire after picking up unknown radar signals that were probably migrating seabirds in the Battle of the Pips. For 10 points each:

[10m] Name this 1940s military campaign in which John DeWitt and Thomas Kinkaid led Operation Landcrab against the Japanese in a battle to reclaim Attu.

ANSWER: **Aleutian** Islands campaign [prompt on, but DO NOT REVEAL, **Alaskan** campaign or **Alaska** campaign]

[10e] During World War II, this state's Territorial Guard assisted US troops fighting in this state's Aleutian Islands campaign.

ANSWER: **Alaska** [or **AK**]

[10h] This location was the site of a naval operating base with nearby Fort Mears on Amaknak Island. This site, which was one of the few US locations targeted by an aerial bombardment, names a battle fought a day before the Battle of Midway.

ANSWER: **Dutch Harbor**

<Harvard B, American History>

2. After performing this type of study, the Sum of Single Effects model, or SuSie, is used to generate probabilistic “credible sets” in a process called fine-mapping. For 10 points each:

[10h] Name this type of study often performed using the PLINK package. Data from these studies are used to calculate polygenic risk scores.

ANSWER: **GWAS** (“G-woss”) [or **genome-wide-association** studies or **GWA** studies]

[10m] Fine-mapping can be used to determine causal variants from microarrays containing many of these things. Each dot on a Manhattan plot corresponds to one of these things, which are point mutations that occur in at least 1 percent of the population.

ANSWER: **SNPs** (“snips”) [or **single nucleotide polymorphisms**]

[10e] Tools like PLINK contain methods for pruning this phenomenon's namesake “disequilibrium” to eliminate non-unique SNPs. In this phenomenon, two genes that are close together on a chromosome are inherited together.

ANSWER: genetic **linkage**

<Chicago A, Biology>

3. A reform movement in a branch of this school that promoted “practical learning” over rigid social structures was called *Silhak*. For 10 points each:

[10e] Name this school of thought whose Korean offshoot included the philosophers Toegye (“TWEG-yeh”) and Yulgok. The teachings of this school's founder are collected in the *Analects*.

ANSWER: **Confucianism** [or **Rújiā**; or **Ruism**; accept Korean **Confucianism** or Neo-**Confucianism**]

[10h] The Four-Seven debate in Korean Confucianism concerned whether the Seven Emotions were as vital as these four entities. Mencius used this term for the human tendencies toward righteousness, justice, propriety, and wisdom.

ANSWER: **sprouts** [or **seeds**; or **shoots**; or **siduan**; prompt on **principles** or **beginnings**]

[10m] The crux of the Four-Seven debate concerned whether this “governing order” was interdependent with *qi*. In Confucianism, this Chinese word means the virtue of “ritual propriety” and is often grouped with *ren* and *yi*.

ANSWER: **li**

<TM, Philosophy>

4. In a story from the Lambeth manuscript, a warrior uses his shield to trick one of these animals into fighting its own reflection. For 10 points each:

[10e] Name this sort of animal that terrorized the Isle of Anglesey until King Arthur killed it. Black-furred varieties of these animals are a sign of good luck in Welsh culture, and are often depicted accompanying witches.

ANSWER: cats [accept Cath Palug]

[10m] In the Welsh poem *Pa Gur*, this Knight of the Round Table fights the monstrous Cath Palug instead of King Arthur. This foster brother of King Arthur and son of Sir Ector served as the king's seneschal ("SEN-uh-shul"), or steward.

ANSWER: Sir Kay [or Cai; or Cei; or Kex; or Keu]

[10h] A major source for the "Poetry of the Princes" was this text, according to which the sow Henwen birthed Cath Palug after being chased out of Cornwall. This text contains many stories from the *Mabinogion*, like a similar text named for Rhydderch.

ANSWER: Red Book of Hergest [or Llyfr Coch Hergest]

<MS, Mythology>

5. One of these people stands behind a large wooden "V" into which a man is hammering a wedge in a painting by Horace Pippin. For 10 points each:

[10h] What sort of person is depicted as geometric forms over a black background in Norman Lewis's *American Totem*? Another artist often painted cartoonish depictions of these people holding cigars against pink backgrounds.

ANSWER: Klansmen [accept members of the KKK or Ku Klux Klan or the Klan] (The Pippin painting is *Mr. Prejudice*, and the artist is Philip Guston.)

[10e] Pippin variously painted this president pardoning a sentry, building a cabin, and as a Good Samaritan. Pippin made a portrait of Marian Anderson after her concert in front of Daniel Chester French's sculpture of this president.

ANSWER: Abraham Lincoln

[10m] Pippin's *John Brown Going to His Hanging* inspired this artist's series *The Legend of John Brown*. People enter doors marked for various cities in the first entry of a 60-painting series that this artist made for the WPA.

ANSWER: Jacob Lawrence [or Jacob Armstead Lawrence] (The series is his *Migration Series*.)

<TM, Painting and Sculpture>

6. The treatise *The Art of Ingenuity* defined a poetic ideal from this country as "an act of the understanding that expresses the correspondence between objects," contrasting with a rival's "cultivated Lutheranism." For 10 points each:

[10m] Name this country where two opposing poetic styles developed in the 17th century. A poet from this country who used one of those styles attacked a rival who used the other by comparing his large nose to a swordfish.

ANSWER: Spain [or España]

[10e] Francisco de Quevedo displayed the epigrammatic *conceptismo* style in an essay collection titled for these things. Segismundo takes the Polish throne in Pedro Calderón de la Barca's play titled *Life is* [one of these things].

ANSWER: dreams [or sueños; accept *Life is a Dream* or *La vida es sueño*; accept visions]

[10h] Quevedo and this author of *The Art of Ingenuity* championed *conceptismo*. This Jesuit priest wrote *The Art of Worldly Wisdom* and the novel *El Criticón*.

ANSWER: Baltasar Gracián [or Baltasar Gratian]

<HG, European Literature>



7. People sheltered in Pasadena's Rose Bowl Stadium during a fire named for this canyon that destroyed over 10 thousand structures. For 10 points each:

[10m] Name this canyon in the San Gabriel Mountains that names the second largest wildfire that struck Southern California in 2025. The fire named for this canyon was the second-largest after the Palisades fire.

ANSWER: **Eaton** Canyon

[10e] Squads of people with this status have been recruited to fight the Eaton and Palisades fires by clearing brush. The 13th Amendment prohibits involuntary servitude except for people with this status.

ANSWER: **prisoners** [or synonyms like being **imprisoned**, in **prison**, or **incarcerated**]

[10h] Palisades homeowners' increased enrollment in this state government plan led to California's exposure for over 6 billion dollars in damages to the neighborhood. This plan covers areas where private companies would not provide insurance.

ANSWER: **FAIR** Plan [or California **FAIR** Plan]

<EC, Current Events>

8. Answer the following about the poet and playwright Xavier Villaurrutia ("vee-ya-oo-ROO-tee-ah"), for 10 points each.

[10e] This feeling is called "a secret, a torment, a doubt, a questioning" in Villaurrutia's poem "Nuestro [this feeling]." Twenty poems about this feeling precede a "Song of Despair" in a Pablo Neruda collection.

ANSWER: **love** [or **amor**; accept "Nuestro **amor**" or "Our **Love**"; accept *Twenty **Love** Poems and a Song of Despair* or *Veinte poemas de **amor** y una canción desesperada*]

[10h] This student of Villaurrutia wrote the essay "Hieroglyphs of Desire" about his work. This author's poem *Blanco*, written in Delhi, was intended to be published as a scroll of differently-colored sections split between the page's left and right sides.

ANSWER: Octavio **Paz**

[10m] Villaurrutia's major poetry collection is titled *Nostalgia* for this noun. The line "From the icy niche where men placed you" opens the first of a series of sonnets titled for this noun and dedicated to Romelio Ureta.

ANSWER: **death** [or **muerte**; accept *Sonnets of **Death*** or *Sonetos de la **Muerte***; accept *Nostalgia for **Death*** or *Nostalgia por la **muerte***] (*Sonnets of Death* is by Gabriela Mistral.)

<Chicago A, World Literature>

9. One of these structures known as "A Kivi" was significantly less disturbed than others due to being located inland, with statues on it unusually facing the ocean. For 10 points each:

[10m] Name these large ceremonial stone platforms atop which *moai* statues were placed.

ANSWER: **ahu** [accept **Ahu** A Kivi]

[10e] Scholars have suggested that only the introduction of sweet potato, which supplanted taro and yam, was sufficient to facilitate the labor needed to build many *ahu* and *moai* on this island after 1200 CE.

ANSWER: **Easter** Island [or **Rapa Nui** or Isla de **Pascua**]

[10h] This group of islands was where the oldest sweet potato in Polynesia was discovered. Carbonized remains of tubers on Mangaia ("mang-EYE-uh") in this group predate the settlement of Easter Island.

ANSWER: **Cook** Islands [or **Kūki** 'Airani]

<Texas B, Other History>

10. The design of these compounds may use dead-end elimination to minimize their conformational energy. For 10 points each:

[10m] Name these compounds whose structure can be predicted with the aid of “knowledge-based” potentials from the PDB. Rotamer libraries for these compounds may tabulate allowed values for the angles omega, phi, and psi.

ANSWER: **proteins** [accept **peptides**]

[10e] Protein design specifies a 3D tertiary structure and aims to find a sequence that will match it when it undergoes this process. Prions are formed when this process occurs incorrectly.

ANSWER: **folding** [or protein **folding**]

[10h] This two-word term refers to the design of proteins that do not occur in nature. David Baker’s lab’s production of Top7 using only algorithmic means exemplifies protein design described by this term.

ANSWER: **de novo** [or **de novo** protein design]

<MY, Chemistry>

11. This character is affectionately called a “*cochon de lait*” (“ko-SHAWN duh lay”) and praised for his legs, hands, and “real fingernails” while his grandmother “scans [him] narrowly.” For 10 points each:

[10m] Identify this character, whose apparent similarity to a “quadroon” boy fanning him with peacock feathers causes his father Armand to expel him and his mother from their home.

ANSWER: **Désirée’s baby** [accept the **infant** or **child** or **son** of **Désirée** Valmondé]

[10e] This author explored race relations in Creole Louisiana in her story “Désirée’s Baby.” This author also wrote *The Awakening*.

ANSWER: Kate **Chopin** [or Katherine **O’Flaherty**]

[10h] “A Story of Creole Life” is the subtitle of this George Washington Cable novel that explores the relationship between Honoré and his quadroon half-brother, also named Honoré.

ANSWER: *The **Grandissimes*** [or *The **Grandissimes**: a Story of Creole Life*]

<Chicago A, American Literature>

12. The Ásbirningar clan fought the 1244 Battle of the Gulf in this country during the chaotic end of its Commonwealth era. For 10 points each:

[10e] Name this country settled during the 9th and 10th century in a migration described in the *Landnámabók*. The writer of sagas like the *Prose Edda* was a lawspeaker in this country.

ANSWER: **Iceland** [or **Ísland**]

[10h] The Battle of the Gulf was fought during the “Age of” this family that was the most powerful on the island. The lawspeaker and author Snorri, who pledged fealty to the king of Norway, was a member of this clan.

ANSWER: **Sturlungs** [or **Sturlungar**; prompt on **Sturluson** by asking “what is the clan’s formal name?”]

[10m] Iceland came under Norwegian rule during the reign of a king with this given name. A Danish prince adopted this name upon his 1905 election as newly-independent Norway’s first king and ruled Norway during World War II.

ANSWER: **Haakon** [accept **Haakon** IV, **Haakon** V, or **Haakon** VII]

<Harvard B, European History>

13. An Art Blakey Quintet album recorded at this location includes an intro by the notoriously violent and greedy Pee Wee Marquette, its four-foot-tall MC whom Lester Young called “half a mofo.” For 10 points each:

[10m] Name this New York City location that titles a 1977 Weather Report song written by Joe Zawinul.

ANSWER: **Birdland** [accept *A Night at Birdland*]

[10e] Us3’s (“us-three’s”) landmark acid jazz song “Cantaloup (Flip Fantasia)” samples both Pee Wee’s intro from Blakey’s *A Night at Birdland* and “Cantaloupe Island” by this jazz fusion composer of “Rockit” and “Watermelon Man.”

ANSWER: Herbie **Hancock** [or Herbert Jeffrey **Hancock**]

[10h] Pee Wee extorted Bobby Hutcherson, a player of this instrument who composed *Montara* and *Components*. The musicians whose signature songs were “Flying Home” and “Bags’ Groove” played this instrument.

ANSWER: **vibraphone** [accept **vibes**; accept **vibraharp**] (The musicians are Lionel Hampton and Milt Jackson.)

<AP, Other Fine Arts>

14. This process occurs in response to effective stress according to Terzaghi’s theory of it. For 10 points each:

[10h] Give the general term for the process whereby soil changes in volume due to pressure. Soil undergoing this process via cycles of compaction and swelling is often modeled as an idealized spring.

ANSWER: soil **consolidation** [accept word forms such as **consolidate**]

[10e] Soil compaction undesirably decreases infiltration capacity and increases the frequency of this process in which excess water flows overground, possibly leading to soil erosion.

ANSWER: surface **runoff**

[10m] Since consolidation changes a soil’s volume without affecting its other properties, it also changes the soil’s value for this quantity, the percentage of its total volume that consists of “empty” space.

ANSWER: **porosity** [or **void fraction**; prompt on **phi**]

<Chicago A, Other Science>

15. This composer’s Opus 18 and 36 string sextets have been credited with the revival of the genre in the late Romantic era. For 10 points each:

[10m] Name this composer whose other innovatively-scored chamber works include an E-flat major horn trio as well as a quintet and two sonatas written for clarinetist Richard Mühlfeld.

ANSWER: Johannes **Brahms**

[10e] Among the most memorable Brahms-influenced string sextets is *Transfigured Night*, which is by this composer and founder of the Second Viennese School.

ANSWER: Arnold **Schoenberg**

[10h] Schoenberg’s orchestration of this Brahms chamber work includes a xylophone among its anachronistic percussion choices. This G minor piece’s finale is a challenging presto marked *Rondo alla zingarese*.

ANSWER: **Piano Quartet** No. **1** in G minor, Op. 25 [or Brahms’s **First Piano Quartet**; accept **Opus 25**]

<MY, Classical Music>

16. One type of these events whose name arises from charged particles interacting in their own electric field results in trajectories that follow a hyperbolic Keplerian orbit. For 10 points each:

[10m] Name these events that are assumed to be absent in diffuse, high temperature plasmas. The average distance between these events is much smaller than the length scale in plasmas where these events dominate.

ANSWER: **collisions** [accept, but DO NOT REVEAL, Coulomb **collisions**]

[10e] Collisions in plasmas that occur through field interactions are named for this scientist. The inverse-square law for the electrostatic force between charge carriers is named for this scientist.

ANSWER: Charles-Augustin de **Coulomb** [accept **Coulomb**'s law or **Coulomb** collisions]

[10h] Time-evolution of collisional plasmas can be modelled using the Vlasov equation, which describes collisional plasmas, combined with this other equation also named for a Russian physicist, which incorporates Coulomb collisions.

ANSWER: **Landau** kinetic equation

<Texas B, Physics>

17. Maxwell Thompson formed the Citizens' Committee after the Bay Street Boys banned a showing of this actor's debut film. For 10 points each:

[10h] Name this actor who publicly endorsed his longtime neighbor Lynden Pindling for prime minister. This actor recounted his life growing up on Cat Island in his "spiritual autobiography" *The Measure of a Man*.

ANSWER: Sidney **Poitier** ("PWAH-tee-ay") (His debut film was 1950's *No Way Out*.)

[10e] Sidney Poitier grew up in this country, which became independent in 1973 under the leadership of Lynden Pindling. During World War II, the former Edward VIII served as governor of this then-colony with capital Nassau.

ANSWER: The **Bahamas** [or Commonwealth of the **Bahamas**; accept British **Bahamas** or Crown Colony of the **Bahamas**]

[10m] Poitier served as the Bahamian ambassador to this country for a decade. A leader whose parents migrated [emphasize] from this country formed the Grupo Colina death squad that committed the Barrios Altos massacre.

ANSWER: **Japan** [or **Nippon**; or **Nihon**] (The leader is Alberto Fujimori.)

<Chicago A, World History>

18. This verse form is exemplified by Barnabe Barnes's line "What shall I do to my Nymph when I go to behold her? / Hold her!" For 10 points each:

[10e] Name this 16th and 17th-century English verse form in which the last syllables of a line repeat. This form shares its name with a nymph loved by Narcissus.

ANSWER: **echo** verse

[10h] This poet used echo verse in "Heaven," a poem beginning "O Who will show me those delights on high?

Echo: I ("eye")." This poet concluded his poem "Love (III)" with the lines "So I did sit and eat," after Love enjoins him to "taste my meat."

ANSWER: George **Herbert**

[10m] This poet used a form of echo verse in "The Leaden Echo and the Golden Echo." Another poem by him opens "I caught this morning morning's minion, king-/ dom of daylight's dauphin, dapple-dawn-drawn Falcon."

ANSWER: Gerard Manley **Hopkins** (The other poem is "The Windhover.")

<TH, British Literature>

19. E. P. Sanders disagreed with a view during this movement that Paul's criticism of the "works of the Law" meant that salvation was achieved through faith alone. For 10 points each:

[10e] Name this event that is traditionally considered to have begun with the posting of the *Ninety-five Theses*.

ANSWER: **Reformation** [or Protestant **Reformation**; or European **Reformation**]

[10h] Sanders associated himself with this general movement by claiming Paul advocated "covenantal nomism."

N. T. Wright was a scholar of this biblical studies movement that re-evaluated Paul's writings.

ANSWER: **New Perspective** [accept **New Perspective** on Paul]

[10m] Sanders argued that this figure should be understood through the lens of Jewish restoration eschatology.

Wright supported Albert Schweitzer's "consistent eschatology" view that he outlined in *The Quest of* [this specific figure].

ANSWER: **historical Jesus** [accept *The Quest of the **Historical Jesus***; prompt on **Jesus** Christ or **Jesus** of Nazareth; prompt on **Christ**]

<Chicago A, Religion>

20. This economist and his student Richard Brumberg outlined a "hump-shaped" pattern of wealth accumulation that peaks in the middle of adulthood, called the "life-cycle hypothesis." For 10 points each:

[10m] Name this economist who co-names a theorem often called "capital structure irrelevance." That theorem, co-named for this economist and an American-born colleague, posits that how a firm is structured should not affect its value.

ANSWER: Franco **Modigliani** [prompt on **Modigliani–Miller** theorem]

[10e] The Modigliani–Miller theorem implies that equity rises with a ratio named for equity and this quantity. This quantity is the amount owed by one party to a creditor.

ANSWER: **debt** [or national **debt**]

[10h] The Modigliani risk-adjusted performance, which measures the risk-adjusted returns of some portfolios, is derived from this measurement. This measurement is the slope of a capital allocation line.

ANSWER: **Sharpe** ratio [or **Sharpe** index; or **reward-to-variability** ratio]

<NS, Social Science>