

2025 ACF Regionals

Packet D by CWRU A, Iowa, Toronto A, WashU A

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Tossups

1. A monologue likens this character's success to Reverend Gates, who is forced to dance at gunpoint in the sundown town of Sigsbee. While waiting for this character to arrive, two of her colleagues bet a dollar that one of them can spell "music," which he spells "M-U-S-I-K." This character first enters accompanied by a policeman trying to arrest her for assaulting a cab driver. This woman refuses to work until she is brought a Coca-Cola and demands that a spoken-word intro be performed by her stuttering nephew Sylvester. Levee stabs his bandmate Toledo in a play titled for this woman that is the only play from its author's *Century Cycle* not to be set in Pittsburgh. For 10 points, name this blues singer who appears in an August Wilson play titled for her "Black Bottom."

ANSWER: Ma **Rainey** [or Gertrude **Pridgett**; accept Madame **Rainey**; accept *Ma Rainey's Black Bottom*; prompt on Ma or Madame]

<HG, American Literature>

2. An equation that uses a form of this technique to determine kinetic parameters contains the constant intercept term [read slowly] "log of the pre-exponential factor times *R* over activation energy" and is named for Homer Kissinger. A form of this technique used to analyze protein solutions involves applying perturbations of 5 atmospheres. It's not chromatography, but noise in this technique can be suppressed using a nitrogen and argon-based "purge" gas. The results of a form of this technique are characterized by a "c-value" proportional to binding affinity. Glass transitions can be quantified using a form of this technique that measures the difference in heating rate between two pans called its "differential scanning" type. For 10 points, what technique is done in classroom labs by heating a sample in a coffee cup?

ANSWER: **calorimetry** [accept differential scanning **calorimetry** or isothermal titration **calorimetry** or pressure perturbation **calorimetry**]

<CWRU A, Chemistry>

3. Scholars connect this character with the concept of *synty* through a passage where he explains the origin of iron to an old healer. That passage exemplifies a common epithet of this character, translated as either "trusty old" or "steadfast old." This character falls into the sea and drifts for eight days after his horse is shot by a crossbow. This character crawls into the stomach of a sleeping giant to learn the three missing words of a magic spell. After a baby chastises this character for causing Aino to drown herself, this character sings up a magic boat and sails away in exile. This character kills a pike and uses its jaw to create the first kantele ("KAWN-teh-leh") while on his way to recover the magical Sampo from Louhi, the ruler of Pohjola ("POH-yo-lah"). For 10 points, what bard is the central character of the *Kalevala*?

ANSWER: **Väinämöinen**

<MS, Mythology>

4. In this field of law, the “People” case established the doctrine of “legal impossibility,” distinct from “factual impossibility.” A namesake “conversation” in this field of law is similar to a breach of promise but has been abolished by over half of US states. “Mistakes of fact” in this field of law are distinct from “mistakes of law,” which are often excluded for violating *ignorantia juris non excusat*. This field of law divides its central subject into *mala in se* and *mala prohibita* types. Jurisdictions place value on this field of law’s objectives of retribution, deterrence, and restoration. In this field of law, the external element is sometimes equated to the *actus reus*, which is often required as proof alongside the *mens rea*. For 10 points, what field of law concerns personal offenses like battery and assault?
ANSWER: **criminal** law [accept **criminal** conversation; prompt on criminology; reject “tort law”]
<NS, Social Science>

5. In the wake of this event, a man began a media empire publishing *La Caricature* and *Le Charivari* (“luh shah-ree-vah-REE”). During this event, the Duke of Ragusa was arrested and exiled for failing to retake a town hall. During this event, a man failed to bypass his own son and give power to the “miracle child.” During this event, journalists congregated at the offices of the newly founded newspaper *Le National* to publish a letter protesting the repressive Four Ordinances of Saint-Cloud (“san-CLOO”). Barricades were raised during the “Three Glorious Days” of this event, which concluded when Lafayette appeared on the balcony of the Hotel de Ville next to a man later known as the “Citizen King.” For 10 points, name this uprising that led to the abdication of Charles X and the ascension of Louis-Philippe.
ANSWER: **July Revolution** [or **July Days**; accept **Three Glorious Days** until “Three” is read; accept French **Revolution of 1830**; reject “French Revolution”] (Charles Philipon founded *La Caricature* and *Le Charivari*.)
<CWRU A, European History>

6. This physicist and an alphabetically-later collaborator developed a set of electrodynamic equations that set an upper limit on the self-energy of a point charge to avoid divergences in Maxwell electrodynamics. This physicist developed a coordinate chart to describe the worldlines of Langevin observers on a rotating disk, which must have constant orthogonal spacetime distance to satisfy this physicist’s relativistic formulation of rigidity. While at Göttingen, this physicist and Heisenberg developed the matrix representation of quantum physics. This physicist proposed that the squared magnitude of a wave function equals the probability of finding a particle. For 10 points, name this German physicist who names an approximation that fixes nuclei in space along with J. Robert Oppenheimer.
ANSWER: Max **Born** [accept **Born** rule or **Born** rigidity or **Born** coordinates or **Born**–Infeld model or **Born**–Oppenheimer approximation]
<Toronto A, Physics>

7. A collection of documents from this city are the main focus of Wouter Henkelman’s *The Other Gods Who Are*, which notes how the 26 attestations of Humban (“HOOM-bahn”) are the most of all deities mentioned. Records from this city mention commodities being “poured” before individuals such as the king, the official Karkiš (“KAR-kish”), and the royal woman Irdabama. Parnaka headed the administration at this city, where many *kurtaš* (“KOOR-tash”) workers were provided with rations recorded in the Fortification Tablets. The Gate of All Nations and Hall of a Hundred Columns were built at this non-Susa city home to the Apadana Palace, whose reliefs show 23 delegations bringing tribute. For 10 points, Darius I began the construction of what city near Naqsh-e Rostam, an Achaemenid (“uh-KEE-men-id”) capital whose name means “Persian city”?
ANSWER: **Persepolis** [or **Pārsa**; accept **Takht-e Jamshīd**] (Humban appears more times than Ahuramazda in the Fortification Archive.)
<AT, Other History>

8. *Description required.* This fictional object is compared to an author's broken engagement in "The Swords Are Approaching," an essay by the author of *Love and Garbage*, Ivan Klíma. After fiddling with this object, a character tries to wash his hands in dirty water, then sand, causing him to drop two women's handkerchiefs. A servant who earlier had rejected a whipping grabs at the gear wheels that begin to pour out of this object. This device's operator complains of a squeaky wheel and torn straps to a traveler viewing this device, who is urged to recommend its utility to a new Commandant. This device, which is made up of the Bed, the Inscraper, and the Harrow, kills an Officer obsessed with it instead of writing the words "BE JUST." For 10 points, identify this punitive device from a Franz Kafka story set at a prison camp.

ANSWER: the **apparatus** from "**In the Penal Colony**" [or the **apparatus** in the **penal colony**; accept **machine** or **mechanism** or general terms for things, like **object** or **device**, in place of "apparatus"; accept descriptions of a **torture** device or **killing** device in place of "apparatus"; accept "**In Der Strafkolonie**" in place of "In the Penal Colony"]

<HG, European Literature>

9. An 80-foot geodesic dome is found on the facade of this city's so-called "Taj Mahal of Tenpins," the National Bowling Stadium. It's not in New Mexico, but this city's Rancho San Rafael Regional Park hosts this city's "Great Balloon Race." This city's Mapes Hotel hosted women seeking to establish residency for six weeks before leaving their marriages, leading it to proclaim itself the "divorce capital of the world." A singer invoked poetic license after a photographer pointed out that shooting a man in this city wouldn't send someone to California's Folsom Prison. This city is the seat of Washoe County in the Truckee River Valley. This city forms a metro area with neighbouring Sparks north of the state capital, Carson City. For 10 points, name this "Biggest Little City in the World" in northwest Nevada.

ANSWER: **Reno**

<Toronto A, Geography>

10. The poet-composer Henri Dallier ("on-REE dahl-YAY") wrote a set of five "invocations" for this instrument. In the middle of a recital of his own music, a blind composer reportedly died while sustaining a low E on this instrument. Constant triple-forte sixteenth notes in 4/2 ("four-two") time fill the oft-excerpted Toccata finale of the fifth in a set of works for this instrument. Midway through the second movement of one symphony, after a grand pause from the orchestra, this instrument enters with a loud C major chord to open a *Maestoso* fourth section. Louis Vierne ("vee-AIRN") assisted Charles-Marie Widor in his class on this instrument, which is unusually featured in the third symphony of Camille Saint-Saëns. For 10 points, name this instrument that traditionally plays recessional music in a church.

ANSWER: **organ** [or pipe **organ**]

<CWRU A, Classical Music>

11. In this novel, a casino orchestra's rendition of the Rákóczi ("RAH-koh-tsee") March drowns out the footsteps of an approaching woman, allowing her to overhear a man's confession of love to his ward. A woman in this novel first makes the acquaintance of Maisie Maidan after helping untangle a comb from her hair. Upon hearing of the title character's suicide en route to Ceylon, a girl in this novel becomes catatonic and can only say a prayer to an "Omnipotent God" and the word "shuttlecock." Characters in this novel who seek treatment for their heart ailments at a spa in Nauheim include the narrator's promiscuous wife Florence. This novel opens with the line "This is the saddest story I have ever heard." For 10 points, name this novel by Ford Madox Ford titled for Edward Ashburnham, a British army officer.

ANSWER: *The **Good Soldier***

<CWRU A, British Literature>

12. In this book, a figure's "double-being" is summarized via the formula, "all that exists is just and unjust and equally justified in both." This book describes the origins of an archetypal person who finds pleasure in unveiling truth, whom it calls the "theoretical man." Camille Paglia's *Sexual Personae* uses the word "chthonian" in place of a concept introduced in this book, which is exemplified by poems called dithyrambs. Fourteen years after writing this book, which was his first, its author walked it back in the prefatory essay "An Attempt at Self-Criticism." This book claims that an imbalance arose between the ordered and chaotic impulses in art, which it calls the Apollonian and Dionysian. For 10 points, name this book by Friedrich Nietzsche on a genre practiced by Aeschylus and Euripides. ANSWER: The Birth of Tragedy [or The Birth of Tragedy Out of the Spirit of Music; or Die Geburt der Tragödie aus dem Geiste der Musik] (The figure in the first sentence is Prometheus. Paglia replaced the word "Dionysian" with "chthonian.")

<TM, Philosophy>

13. A teacher of this activity nicknamed "Aunty Edith" is the namesake of a stadium that hosts a competition often billed as "the Olympics of" this activity. The scholar Mary Kawena Pukui was an expert on the seated form of this activity, which in the modern day is often performed to songs like "Tiny Bubbles" and "E Ō Mai." Each Easter, judges at the Merrie Monarch Festival evaluate performances in this activity's ancient form based on their usage of chants called *mele* and *oli* to convey oral narratives called *mo'olelo*. *Ipu* or *pahu* drums usually provide percussion for this dance, whose modern form is taught by *kumus* at schools called *hālau* and may be set to English-language *hapa haole* music. For 10 points, performers at *lū'aus* often wear leis and grass skirts during what dance of Hawai'i? ANSWER: hula [or hula kahiko; or hula 'auana; accept ha'a; accept mele hula; prompt on dance or dancing until "dance" is read; reject "haka"; reject "hula hoop"] (Edith Kanaka'ole is "Aunty Edith." "Tiny Bubbles" is by Don Ho and "E Ō Mai" is by Keali'i Reichel.)

<AP, Other Fine Arts>

14. In 2022, researchers showed that a city in this modern-day country used *dhaka* pits to store water. A "pattern" named for this modern-day country was distinguished from the "central cattle pattern" by Thomas Huffman, who also investigated the "tradition" of this modern-day country's site of Leopard's Kopje ("COP-yuh"). The Torwa dynasty ruled a gold-trading kingdom once located in this modern-day country centered at Khami. Many *daga* buildings were found in the "Valley Ruins" of a city in this modern-day country where a conical tower was located in its "Great Enclosure." A city in this modern-day country contained the "Hill Complex," the hypothesized original location of eight soapstone birds. For 10 points, what modern-day country contains the site of a "Great" African city founded by the Shona people?

ANSWER: Zimbabwe [or Republic of Zimbabwe; accept Great Zimbabwe; accept Kingdom of Zimbabwe; accept Zimbabwe Pattern]

<AK, World History>

15. Derivations of this phenomenon may assume that objects satisfy the "singular isothermal sphere" profile. The KSB method is used to combat the PSF uncertainty produced in this phenomenon. The background distribution of dark matter can be found by averaging the orientations of galaxies due to the shear produced by this phenomenon. The observation of the "Twin Quasar" confirmed Fritz Zwicky's prediction of this phenomenon. The quantity [read slowly] "four times big G times mass over radius times *c*-squared" equals this phenomenon's angle of deflection. When a source, observer, and intermediary are all aligned, this phenomenon can produce a "halo effect" called Einstein rings. For 10 points, name this phenomenon in which astronomical bodies bend the path of light.

ANSWER: gravitational lensing [accept strong lensing or weak lensing or microlensing]

<Iowa, Other Science>

16. John Paul II claimed that God is made “visible” by this concept in a 1980 encyclical about the necessity of its “richness” in society. A passage from Exodus is the source of Jewish belief in the “thirteen attributes” of this concept. The phrase “Jesus, I trust in you” is often written on images of a “divine” aspect of this concept described by Saint Faustina Kowalska. Pope Francis I declared 2016 an “Extraordinary Jubilee Year of [this concept].” In a section on the “Sheep and the Goats” from Matthew, Jesus described the “corporal works” of this concept, distinguished from its “spiritual works.” The opening of the *Kyrie* (“KEE-ree-ay”) prayer invokes this concept, which also begins and sometimes names Psalm 51. For 10 points, in the Jesus Prayer, worshippers ask him to have what concept on them as sinners?

ANSWER: **mercy** [accept word forms; accept God’s **mercy**; accept **eleison**; accept **miserere**; accept **rachamim**; accept Year of **Mercy**; accept Divine **Mercy**; accept Thirteen Attributes of **Mercy**; accept *Dives in Misericordia*; prompt on **forgiveness**; prompt on **compassion** or **kindness**; reject “grace” or “pity”]

<WashU A, Religion>

17. During this battle, the president told his secretary that the enemy general was “confused and stunned like a duck hit on the head.” A general in this battle hoped to trap James Negley by attacking through McLemore’s Cave from the northeast. A side in this battle retreated through Lafayette Road due to a miscommunicated order to Thomas J. Wood’s division, opening an opportunity for James Longstreet’s reinforcements. John Bell Hood’s right leg was amputated after this battle, leading Union forces to retreat to Chattanooga. George H. Thomas was nicknamed “the Rock of” this battle, the second bloodiest of the war. For 10 points, Ambrose Bierce’s story about a deaf-mute boy was titled for what 1863 Civil War battle in which Braxton Bragg defeated William Rosecrans in Georgia?

ANSWER: Battle of **Chickamauga**

<CWRU A, American History>

18. John Beazley used this city to name an anonymous red-figure vase painter of the 5th century BC who is often contrasted with the Kleophrades Painter. The introduction of Mary Beard and John Henderson’s *Classical Art* describes a once-armless *Praying Boy* sculpture called this city’s “Adorant.” This city often names the Severan Tondo. An artwork now located in this city contains a long staircase and a large frieze depicting the Gigantomachy. Today, this city is home to the Ishtar Gate and the Bust of Nefertiti. This city’s Altes (“ALL-tiss”) Museum is on its Museum Island, where an altar originally from Asia Minor is housed in the Pergamon Museum. For 10 points, name this capital that houses many works found by a native son who excavated Mycenae and Troy, Heinrich Schliemann.

ANSWER: **Berlin** [or The **Berlin** Painter; or **Berlin** Adorant; or **Berlin** Tondo]

<TM, Painting and Sculpture>

19. A story by this author centers on the monk Lorenzo, who is ostracized for having a child with an umbrella maker’s daughter, but is revealed to be a woman after saving the child from a burning building. In a story by this author of “The Death of a Disciple,” the narrator reflects that he sees a fire every time he returns to the capital after his arsonist brother-in-law is hit by a train. This author created a character who binds one of his apprentices with chains and attacks another with a horned owl to study their pained expressions. In that story by this author, an artist watches as his daughter and her pet monkey are burned alive in a carriage by Lord Horikawa to inspire the title artwork. For 10 points, what author of the stories “Cogwheels” and “Hell Screen” names a Japanese literary prize?

ANSWER: Ryūnosuke **Akutagawa** [or **Akutagawa** Ryūnosuke]

<Toronto A, World Literature>

20. This condition can cause neuropathy, swelling, and pain in the hands and feet in another condition called acrodynia or “pink disease.” While studying this condition in his lab at Caltech, Clair Cameron Patterson used one of the first cleanrooms to discredit earlier findings by Robert Kehoe. A molecule that causes this condition mimics methionine after binding with cysteine, allowing it to cross the blood–brain barrier. One form of this condition results in a triad of tremors, gingivitis, and erethism. This condition, which is the cause of itai-itai disease and Minamata disease, is often treated with medical-grade Prussian blue, succimer, or sodium calcium EDTA in chelation therapy. For 10 points, what condition is caused by prolonged exposure to elements like lead or mercury?

ANSWER: heavy **metal poisoning** [or heavy **metal toxicity**; accept **lead poisoning** or **mercury poisoning** until read; accept **arsenic poisoning** or **cadmium poisoning** or **selenium poisoning**; accept **plumbism** or **saturnism**; accept **itai-itai** disease until read; accept **Minamata** disease until read; prompt on acute **poisoning** or acute **toxicity**] (Patterson was a vocal opponent of leaded gasoline, which Kehoe had earlier claimed was safe in a now-discredited study.)

<Toronto A, Biology>

Bonuses

1. Pyridinium chlorochromate, or PCC, is a reagent that can perform a mild type of this reaction. For 10 points each: [10e] Name this type of reaction exemplified by the conversion of an alcohol to a carbonyl group, such as in one named for Jones. This type of reaction corresponds to a loss of electrons.

ANSWER: **oxidation** [accept Jones **oxidation**]

[10m] This oxidation converts an alcohol to a carbonyl using oxalyl chloride in an “activated DMSO” reaction. The notoriously odorous dimethyl sulfide is produced as a byproduct of this reaction.

ANSWER: **Swern** oxidation

[10h] The Corey–Kim oxidation uses dimethyl sulfide and a chlorine derivative of this compound. Bromine radicals used for allylic bromination come from a derivative of this compound in the Wohl–Ziegler reaction.

ANSWER: **succinimide** [or *N*-chloro**succinimide** or *N*-bromo**succinimide**; prompt on **NCS** or **NBS**]

<Toronto A, Chemistry>

2. A book about this submovement argues for a middle ground between essentialist and pure social constructivist views of gender and observes that aspects of homophobia arise from “oppositional sexism.” For 10 points each:

[10h] Name this submovement of Julia Serano’s 2007 essay collection *Whipping Girl*. The activist group The Menace inspired Emi Koyama’s manifesto of this submovement within queer theory.

ANSWER: **transfeminism** [accept **transfeminist** studies; prompt on **feminism** or radical **feminism**; prompt on **transgender studies**]

[10e] Serano’s concept of transmisogyny applies this sociological framework described by Kimberlé Crenshaw. This framework analyzes how people’s identities overlap to produce unique forms of oppression and privilege.

ANSWER: **intersectionality**

[10m] Serano cites this thinker’s essay “How to Bring Your Kids Up Gay” to describe forms of pathologization accompanying femininity. This queer theorist coined the term “homosocial” and wrote *Epistemology of the Closet*.

ANSWER: Eve **Sedgwick** [or Eve Kosofsky **Sedgwick**]

<Toronto A, Social Science>

3. This photographer’s images of porch shadows in Connecticut, bowls, and a white fence demonstrate a shift from Pictorialism to “abstraction” and “straight photography.” For 10 points each:

[10h] Name this photographer who shot half of the documentary *Manhatta*. The same borough is the setting of this photographer’s best-known image, which depicts four huge windows above people walking in shadow.

ANSWER: Paul **Strand** (His best-known photograph is *Wall Street*.)

[10m] Strand’s interest in photography began when Lewis Hine took him to visit this gallery. Edward Steichen and Alfred Stieglitz co-founded this gallery, which is known by the three-digit number of its address on Fifth Avenue.

ANSWER: **291** [or Gallery **291**; accept **Photo-Secession** Gallery or Little Galleries of the **Photo-Secession**]

[10e] Strand photographed an old widow surrounded by her five sons in this country. This country’s genre of neorealism influenced that photo, which Strand took on a trip with the screenwriter of its film *Bicycle Thieves*.

ANSWER: **Italy** [or **Italia**; or **Italian** Republic; or Repubblica **Italiana**]

<AP, Other Fine Arts>

4. This quantity for a modulated signal differs by a fixed amount for the two streams in I/Q data, which is derived from the narrowband assumption. For 10 points each:

[10h] Name this quantity whose “keying” is plotted on “constellation diagrams” in digital modulation. This quantity names a class of time-invariant vectors that are generalized by analytic signal representations.

ANSWER: **phase** [accept **phasors** or **phase-shift keying**] (The I/Q data of a signal is its decomposition into in-phase and quadrature components.)

[10e] Phasors are representations of functions with this shape, since they encode the amplitude and phase of a signal. Functions with this shape are the usual terms in a Fourier series.

ANSWER: **sinusoidal** [accept **sine** or **cosine**; prompt on **periodic**]

[10m] In circuit analysis, the ratio of two phasors corresponds to this complex quantity. A generalization of Ohm’s law for inductors and capacitors in AC circuits states that voltage equals current times this quantity.

ANSWER: **impedance** [prompt on **Z**]

<CWRU A, Physics>

5. Answer the following about pronouncing the opening line of Homer’s *Iliad*, for 10 points each.

[10m] The eta should be stressed in this opening word of the *Iliad*, an abstract noun. You may give the Greek word or any of its common English translations.

ANSWER: **mēnin** [accept **rage**, **anger**, **wrath**, or synonyms]

[10e] The opening line attributes the *mēnin*, or wrath, to this Greek hero who is the protagonist of the *Iliad*.

ANSWER: **Achilles** [or **Achilleus**; or **Akhilaos**]

[10h] Because the *Iliad* is in dactylic hexameter, its lines end with a spondee, which has this syllabic configuration.

ANSWER: **two stressed** syllables [or **two long** syllables; accept **stressed stressed** or **long long**; accept **macron macron** or **two** syllables with **macrons**; accept **two heavy** or **two emphasized** syllables; prompt on **two** syllables]

<CWRU A, European Literature>

6. Answer the following about the contributions of BMW to the art world, for 10 points each.

[10h] In 1975, this artist began BMW’s Art Car series on a commission from driver Hervé Poulain (“air-VAY poo-LAN”). This American artist painted his *Flying Colors* on a Douglas airplane and designed a set for Erik Satie’s symphonic drama *Socrate* (“so-KRAT”).

ANSWER: Alexander **Calder**

[10m] BMW sponsors this museum’s program for live performance art exhibitions. Olafur Eliasson’s *The Weather Project* and Ai Weiwei’s *Sunflower Seeds* were hosted in this museum’s Turbine Hall.

ANSWER: **Tate Modern** [prompt on **Tate**; reject “Tate Britain” or “Tate St. Ives” or “Tate Liverpool”]

[10e] BMW collaborated with this museum for an exhibition on the *Art of the Motorcycle*, during which reflective panels covered its spiral ramp. Frank Lloyd Wright designed this New York City museum.

ANSWER: Solomon R. **Guggenheim** Museum [or The **Guggenheim**]

<WashU A, Painting and Sculpture>

7. Emma Smith's *This is Shakespeare* points out a noticeable silence in which a character with this name only delivers four lines while otherwise not speaking on stage for 20 minutes. For 10 points each:

[10m] Give this name of a sea captain from *Twelfth Night* whose departure from Sebastian may be read as homoerotic. In *The Tempest*, a usurping Duke of Milan with this name is silent after being forgiven by his brother Prospero.

ANSWER: **Antonio**

[10e] Isabella stands silently after the Duke proposes marriage to her at the end of this problem play, in which the Duke wears a disguise after banning fornication in Vienna. Its title features the same word twice.

ANSWER: ***Measure for Measure***

[10h] Smith also points out this character's pregnant silence after Valentine offers her to her would-be-rapist Proteus. A song addressed to this character asks "Is she kind as she is fair?"

ANSWER: **Sylvia** [accept "Who is **Sylvia**?"] (She appears in *The Two Gentlemen of Verona*.)

<TH, British Literature>

8. This initiative resulted in the creation of provincial courts as part of the Vilayet Law, replacing the eyalet system. For 10 points each:

[10m] Name this initiative that included the decriminalization of homosexuality and a "reform edict" granting religious freedom to all. This mid-19th century initiative's goals were laid out in the "Supreme Edict of the Rosehouse."

ANSWER: **Tanzimat** reforms [or **Reorganization** period]

[10e] The Tanzimat reforms implemented a modern standing army for the Ottoman Empire after the loss of prestige of these earlier soldiers. Mahmud II disbanded this group of Ottoman soldiers in the Auspicious Incident.

ANSWER: **Janissaries** [or **Janissary** Corps; or **Yeniceri**]

[10h] The Tanzimat reforms outlawed the slave trade of women of this ethnicity, who were concubines in wealthy Ottoman harems. Voltaire claimed that women of this ethnicity introduced inoculation to the Ottoman Empire.

ANSWER: **Circassians** [or **Cherkess**; accept **Adyghe**; accept **Kabardians**]

<Iowa, World History>

9. This scholar wrote the *Refutations of the Heretics and the Jahmiyya*, criticizing the Jahmiyya's belief that God cannot be described by attributes. For 10 points each:

[10h] Name this religious scholar, a leader of the *Ahl al-Hadith* movement. Ibn Taymiyya adhered to an early school named for this scholar that rejects *taqlid*.

ANSWER: Ahmad ibn **Hanbal** [accept **Hanbali** school or **Hanbalism**]

[10e] Most adherents of the Hanbali school are from Qatar and this country. The Wahhabism movement emerged in this country home to Medina.

ANSWER: **Saudi** Arabia [or Kingdom of **Saudi** Arabia; or **KSA**]

[10m] Movements adhering to the Hanbali school, such as Wahhabism and Salafism, reject *taqlid* in favor of this practice. Orientalist scholars claimed that the "gates" of this practice of independent interpretation had "closed."

ANSWER: **ijtihad** [accept gates of **ijtihad**; accept independent **reasoning**; prompt on physical or mental **effort** or **exertion**]

<Iowa, Religion>

10. After police under this leader attacked anti-apartheid demonstrators protesting the Springbok rugby team's visit, he praised them for their "restraint" and gave each officer an extra week of vacation. For 10 points each:

[10h] Name this long-serving premier of Queensland, who was nicknamed the "hillbilly dictator" for taking advantage of an electoral system that meant rural seats had fewer voters.

ANSWER: Joh **Bjelke-Petersen** ("Joe BYELL-kee Peterson") [or Johannes **Bjelke-Petersen**]

[10e] Bjelke-Petersen launched a bid for PM nicknamed "Joh for [this city]," but it petered out after an unsuccessful 1987 campaign. The location of this capital city was chosen to be between Melbourne and Sydney.

ANSWER: **Canberra** [accept "Joh for **Canberra**"]

[10m] To increase his party's appeal to urban voters, Bjelke-Petersen's Country party changed its name in 1974 to this name. New Zealand's main center-right party also has this name.

ANSWER: **National** Party [accept New Zealand **National** Party]

<Toronto A, Other History>

11. Various Greek goddesses have been given the epithet *Brimo* when referring to their "angry" or "terrifying" aspects. For 10 points each:

[10e] Goddesses whose vengeful aspects are referred to as *Brimo* are often linked to this place, which includes the Fields of Elysium and Tartarus.

ANSWER: Greek **underworld** [accept **hell** or **Hades** or **land of the dead**]

[10m] This goddess was given the epithet *Brimo* in her temple at Pherae in Thessaly. Lycophron's *Alexandra* uses the name *Brimo* when describing queen Hecuba's transformation into this goddess's symbol of a black dog.

ANSWER: **Hecate** [or **Hekate**; prompt on **Trivia**]

[10h] Hippolytus states that during this event, a priest announced that a goddess called *Brimo* gave birth to a son named Brimos. "Unrepeatables" of this event include "Things Done," "Things Shown," and "Things Said."

ANSWER: **Eleusinian Mysteries** [prompt on **mysteries**] (The "unrepeatables" held inside the Telesterion included reenacting the Demeter-Persephone myth and being shown sacred relics by a priest with commentary.)

<Toronto A, Mythology>

12. A party that favored this policy nominated the presidential ticket with one of the oldest combined ages, consisting of 79-year-old John M. Palmer and 73-year-old Simon Bolivar Buckner. For 10 points each:

[10h] Name this policy in the nickname of the only third party endorsed by *The New York Times*. Alton B. Parker secured the Democratic presidential nomination in 1904 through a telegram endorsing this policy.

ANSWER: **gold** standard [or **gold** bullion standard or **gold** bullion standard; or **Gold** Democrats]

[10m] While Palmer and Buckner defected from the Democratic Party in 1896, this politician left to form the Silver Republicans. This politician names an amendment that forbade annexing Cuba and was superseded by the Platt Amendment.

ANSWER: Henry M. **Teller** [or Henry Moore **Teller**; or **Teller** Amendment]

[10e] Teller's defection failed to stop the victory of this president in 1896, who started the Spanish-American War and was assassinated by Leon Czolgosz ("CHOL-gosh") in 1901.

ANSWER: William **McKinley**

<Toronto A, American History>

13. During skin infections, langerhans cells can take up antigens to present to these lymphocytes. For 10 points each:
[10e] Name this type of immune cell that comes in “cytotoxic” and “helper” varieties, and develops in the thymus.

ANSWER: **T** cells [accept cytotoxic **T** cells or helper **T** cells]

[10h] Langerhans cells travel to lymph nodes to interact with T cells described by this word, which have differentiated and undergone central selection, but have not been exposed to their corresponding antigen.

ANSWER: **naive** [accept **naive** T-cell or **Th0**]

[10m] Langerhans cells are thought to be a specialized type of these antigen-presenting cells that act as messengers between the innate and adaptive immune systems. These cells come in “conventional” and “plasmacytoid” types, and are named for resembling the branched projections of neurons.

ANSWER: **dendritic** cells [or **DCs** or **veiled** cells; accept conventional **dendritic** cells or plasmacytoid **dendritic** cells or **cDCs** or **pDCs**; accept myeloid **dendritic** cells or **mDCs**; reject “dendrites”]

<CWRU A, Biology>

14. Paul Lorenzen introduced an approach to formal semantics named for these events that assesses the truth of a sentence in first-order logic via a tuple and two people typically named Eloise and Abelard. For 10 points each:

[10m] Name these events that another philosopher cited as sharing “family resemblances.” That philosopher coined a type of these events exemplified by one involving a builder, an assistant, and words like “slab.”

ANSWER: **games** [accept language-**games** or **Sprachspiel**] (The latter philosopher is Ludwig Wittgenstein.)

[10h] A logician from this country pioneered game-theoretic semantics and developed epistemic logic in the book *Knowledge and Belief*. The inventor of deontic logic, G. H. von Wright, was from this country.

ANSWER: **Finland** [or **Suomi**; or Republic of **Finland**; or **Suomen** tasavalta; or Republiken **Finland**] (The first logician is Jaakko Hintikka.)

[10e] In a semantic game, the roles of the Verifier and Falsifier essentially swap if a formula has this operation, which for a proposition P is often written “tilde P” or “exclamation point P.” This operation flips truth values.

ANSWER: **negation** [or word forms like **negating**; or “**not** P”; or **complementation**; or **inverse** or **inversion**]

<TM, Philosophy>

15. Answer the following about the appearance of guavas in literature, for 10 points each.

[10e] The first sentence of Esmeralda Santiago’s memoir of growing up on this island mentions “guavas at the Shop & Save.” Spanish-speaking authors from this American island territory include Giannina Braschi and José Rivera.

ANSWER: **Puerto Rico** [or Commonwealth of **Puerto Rico**] (Santiago’s memoir is *When I Was Puerto Rican*.)

[10h] In this novel, Yolanda pretends not to speak Spanish after getting a flat tire in a guava field. This novel uses reverse chronology to detail the lives of four sisters in America after they flee the Trujillo (“troo-HEE-yo”) regime.

ANSWER: ***How the García Girls Lost Their Accents*** (by Julia Alvarez)

[10m] This author wrote about Sampath, who lives in a guava tree after getting fired from the post office, in her novel *Hullabaloo in the Guava Orchard*. This author also wrote *The Inheritance of Loss*.

ANSWER: Kiran **Desai** [reject “Anita Desai”]

<Toronto A, World Literature>

16. Geoffrey Chaucer and this man testified at the three-year trial of *Scrope v Grosvenor* (“GROVE-ner”), which concerned two noble families using the same heraldry. For 10 points each:

[10m] Name this rebel Prince of Wales who restored the medieval laws of Hywel and created the first Welsh Parliament at Machynlleth (“MACK-in-leth”) in 1404.

ANSWER: Owain **Glyndŵr** (“OH-wyne glin-DOOR”) [or Owen **Glendower**; accept Owain ap **Gruffydd**]

[10h] Owain Glyndŵr was allied with a noble from this family, who earned a nickname from his fast campaigns against Scotland. Glyndŵr negotiated the Tripartite Indenture with Edmund Mortimer and a member of this family.

ANSWER: **Percy** family [accept House of **Percy** or de **Percy**; accept Henry **Percy**]

[10e] The Glyndŵr rebellion was crushed by the fourth and fifth kings of England with this name. The seventh king of England with this name, the founder of the Tudor Dynasty, was born in Wales.

ANSWER: **Henry** [accept **Henry IV**; accept **Henry V**; accept **Henry VII** or **Henry Tudor**]

<Toronto A, European History>

17. In this story, which begins in midsummer, the title character is disturbed to see Andromeda and Cassiopeia in the sky and smell “some stubborn autumnal fragrance on the night air.” For 10 points each:

[10m] Name this short story that ends as the protagonist cries upon discovering his house empty and his wife Lucinda gone.

ANSWER: “The **Swimmer**”

[10e] John Cheever’s story “The Swimmer” first appeared in this magazine, which also published Shirley Jackson’s story “The Lottery.”

ANSWER: *The **New Yorker***

[10h] The protagonist of Cheever’s story “The Country Husband” notes there is “not a trace of autumn” in his lust for a woman with this job. The title character either drowns or peacefully falls asleep in a self-contradictory 1982 story titled for this job.

ANSWER: **babysitter** (The other story is “The Babysitter” by Robert Coover.)

<CWRU A, American Literature>

18. Simone Weil’s (“vay’s”) quote “I cannot love without trembling” inspired the title of a concerto for this instrument that Cassandra Miller wrote for Lawrence Power. For 10 points each:

[10e] Paul Hindemith premiered William Walton’s concerto for what string instrument? This instrument uses alto clef and shares its tuning with the larger cello.

ANSWER: **viola**

[10h] Lawrence Power also premiered this composer’s 2013 viola concerto, whose third movement flute solo was inspired by Japanese *shakuhachi*. This Scottish composer wrote the choral anthem “Who shall separate us?” for Elizabeth II’s funeral.

ANSWER: James **MacMillan** [or James Loy **MacMillan**]

[10m] This composer’s viola concerto was premiered by Roberto Díaz in 2015. This composer imagined the soloist as an Olympic athlete in the “Fly Forward” finale of a violin concerto she wrote for Hilary Hahn.

ANSWER: Jennifer **Higdon** [or Jennifer Elaine **Higdon**]

<MY, Classical Music>

19. An NBA player earned this nickname from commentator Rick Mahorn after hitting two game-winners within two weeks in the 2002–03 season. For 10 points each:

[10h] Give this nickname shared by two NBA players, reflecting their clutch plays. A role player with this nickname has won the most titles of all non-Boston players and hit a winner in game 4 of a controversial 2002 series against the Kings.

ANSWER: **Big Shot** [accept Mr. **Big Shot** or **Big Shot** Rob or **Big Shot** Bob]

[10m] “Mr. Big Shot” was the nickname of this player, who was the Finals MVP during the Pistons’ 2004 championship run. This player currently coaches the Portland Trail Blazers.

ANSWER: Chauncey **Billups** [or Chauncey Ray **Billups**]

[10e] Robert Horry, or “Big Shot Rob,” was the bigger Big Shot against Billups’s Pistons during the 2005 Finals, where he played on this team alongside Tony Parker and Tim Duncan. Victor Wembanyama plays for this team.

ANSWER: **San Antonio** Spurs [or San Antonio **Spurs**]

<Toronto A, Pop Culture>

20. Answer the following about the intersection between algebraic topology and breakfast foods, for 10 points each.

[10e] A common joke holds that a coffee mug is the same as this surface since they are homeomorphic. Donuts and bagels are shaped like this surface.

ANSWER: **torus** [or **tori**; accept **S-one cross S-one**]

[10h] This type of map is often visualized as flattening a stack of pancakes, the union of which is the preimage of a neighborhood in the base. Up to equivalence, a simply connected space has only one of these maps.

ANSWER: **covering** maps [or **covers**; accept **covering** projections or **covering** spaces; accept universal **covers**]

[10m] The Borsuk–Ulam theorem gives an algebraic topology proof of the ham sandwich theorem, which concerns one of these subspaces that “cuts” n objects in half. These affine subspaces have dimension one less than the full space and generalize a two-dimensional analog.

ANSWER: **hyperplanes** [prompt on **planes**]

<TM, Other Science>