

## 2025 ACF Regionals

Packet F by Brandeis A, Florida A, Maryland A, Sheffield A, WashU B

Edited and written by Jeremy Cummings, Ani Perumalla, Erik Christensen, Henry Goff, Taylor Harvey, Amogh Kulkarni, Tim Morrison, Noah Sheidlower, Munir Siddiqui, Abigail Tan, Maxwell Ye, JinAh Kim, Ophir Lifshitz, and Abhinav Rachakonda

### Tossups

1. This conflict was reportedly preceded by a massacre in one city that took place after the “Day of Eleusis” forced a ruler to withdraw from a rival’s territories. A leader of this conflict was honored as “one of the First Friends” by Alexander Balas during a succession rivalry. A text primarily about this conflict records Heliodorus reconciling with Onias (“oh-NYE-us”) after trying to plunder one site. John Hyrcanus’s (“her-KAY-nuss’s”) accession concludes another deuterocanonical book about this conflict. Simon Thassi and his four brothers led one side in this conflict together with their father Mattathias. A king “built an idol altar upon God’s altar” and “slew swine upon it” in the lead-up to this anti-Seleucid (“seh-LOO-sid”) conflict, according to Josephus. For 10 points, name this revolt against Antiochus IV Epiphanes’s Hellenizing impositions on the Jews.

ANSWER: **Maccabean** Revolt [accept revolt of the **Maccabees** or equivalents; accept **Hasmonean** revolt; accept the conflict between **Antiochus IV** Epiphanes and **Judea** or equivalents until “Antiochus” is read; prompt on descriptions of **Jewish** revolts until “Jews” is read; prompt on **anti-Seleucid** revolts until “Seleucid” is read] (According to 2 Maccabees, Antiochus IV massacred Jerusalem after the Romans forced his withdrawal from Egypt in the Sixth Syrian War. The second sentence refers to Jonathan Apphus during Alexander Balas’s rivalry with Demetrius I.)

<AT, Other History>

2. The *Autobiografia* sonnet sequence appears in a work titled for this collection whose final edition in 1947 included over 400 poems; that collection with this title catalogues the life’s work of Triestine poet Umberto Saba. The speaker of this collection sees a hind caught by dogs and a foundering ship among six visions outside a window in a poem that puns on his lover’s name and a kind of tree. This collection is traditionally divided into poems “in life” and “in death.” The 366th and final poem in this collection is a “Prayer to the Virgin.” Thomas Wyatt produced the first English translation of this collection, which opens by addressing “you who hear the sound in scattered rhymes.” For 10 points, the poet professes love for Laura in what collection by Petrarch?

ANSWER: *Il Canzoniere* (“eel kant-zone-YAY-ray”) [or *The Songbook*; accept *Rerum vulgarium fragmenta*; accept *Rime Sparse*; accept *Scattered Rhymes* until “scattered” is read]

<Maryland A, European Literature>

3. An artist from this country had people use a microphone for one minute in the piece *Tatlin’s Whisper* and made a “Tribute” to another artist from this country that involved pressing her blood-soaked arms on a wall. An artist from this country aimed to be a “Trojan horse” with a painting of elongated figures with large feet and crescent-shaped, mask-like faces. An artist born in this country made “earth-body” works like her *Silueta* series and may have been killed by her husband Carl Andre. This is the country of birth of both the painter of *The Jungle*, Wifredo Lam, and Ana Mendieta. A photographer from this country, Alberto Korda, shot a 1960 photo of an émigré to this country that is popular on T-shirts. For 10 points, name this country where the image *Guerrillero Heroico* (“gair-ee-YAY-ro ay-RO-ee-ko”) depicts Che Guevara.

ANSWER: **Cuba** [or Republic of **Cuba**; or República de **Cuba**] (The artist in the first sentence is Tania Bruguera.)

<Maryland A, Painting and Sculpture>

4. Residents refused to assist people in this event a year after the Bible Riots killed over 20 people in Southwark. After leading an uprising during this event, Thomas Meagher worked as a journalist and joined the “Fighting 69th.” As part of this event, New York City, Kingston, and Grosse Isle were impacted by a typhus epidemic. People who relocated during this event were targeted by the Order of the Star Spangled Banner. Quinnipiac University hosts a museum dedicated to this event that outlines a 170-dollar donation by the Choctaw. Vessels called long cónra, or coffin ships, brought people impacted by this event to cities such as Boston. For 10 points, name this event that impacted the US economy in the 1840s after millions faced mass starvation from the blight of a staple crop.

ANSWER: Irish **potato famine** [or Great **Irish Famine**; or **Great Famine**; or **An Gorta Mor**; prompt on **Great Hunger**]

<NS, American History>

5. A poem that draws on a text from this religion asks, “how am I theirs / if they cannot hold me / but I hold them?” at the end of an “Earth-Song.” A figure from this religion titles a poem that describes “the subtle ways / I keep, and pass, and turn again” and claims “I am the doubter and the doubt.” A book’s narrator notes, “in the morning I bathe my intellect” in a text from this religion in the chapter “The Pond in Winter.” A concept from this religion informed the author’s conception of unity in the essay “The Over-Soul.” A term referencing this religion’s culture was coined by Oliver Wendell Holmes, Sr. to describe families like the Lowells and the Cabots. For 10 points, the Transcendentalists were influenced by what Eastern religion whose society inspired the term “Boston Brahmin”?

ANSWER: **Hinduism** [accept **Vaishnavism**; accept **Hindu** caste system] (The first two poems are “Hamatreya” and “Brahma,” both by Ralph Waldo Emerson. The book is *Walden*.)

<Sheffield A, American Literature>

6. The delivery of a type of these things can be postponed via a “wild card option,” which gives parties a few extra hours. Between 1877 and 1930 in the US, consols were examples of the “perpetual” type of these things. TIPS are an inflation-indexed example of these things, adjusted based on the CPI. Using an overlapping-generation model, Robert Barro determined these things should not be perceived as net wealth. Interest payments received by holders of these assets are called coupons. To increase liquidity, central banks purchase long-term examples of these assets in quantitative easing. Series EE and Series I (“eye”) types of these assets are issued by the Treasury. For 10 points, what securities issued by the government are often considered less risky than stocks?

ANSWER: government **bonds** [or Treasury **bonds**; or T-**bonds**; prompt on government **securities** until read; prompt on Treasury **securities** until read; prompt on Treasury **bills**]

<NS, Social Science>

7. Assays for measuring the activity of this compound based on BRET and FRET methods include CAMYEL and FICRHR (“flicker”). By forcing one enzyme to bind to calmodulin, a virulence factor produced by members of the genus *Bordetella* increases levels of this compound. The enzyme that produces this compound can be stimulated using Forskolin, and is activated by the A subunit of cholera toxin, which increases intracellular levels of this compound by over 100-fold. Low glucose levels cause this molecule to allosterically bind to CRP as part of a positive regulation mechanism. Phosphodiesterases most commonly act on this compound, which is necessary for the activity of protein kinase A. For 10 points, name this secondary messenger molecule made from ATP by adenylyl cyclase.

ANSWER: **cyclic AMP** [or **cAMP**; or **cyclic adenosine monophosphate**; prompt on **AMP**]

<MS, Biology>

8. A C major sonata for this instrument is among the best-known works of Georgian composer Otar Taktakishvili (“TAHK-ta-kee-shvee-lee”). The *Andante Pastoral et Scherzettino* is an early method piece for this instrument, for which Carl Reinecke (“RYE-nuh-kuh”) wrote his *Sonata Undine*. Four pickup thirty-second notes begin the *allegretto malincolico* (“ma-lin-CALL-ee-ko”) first movement of an E minor sonata for this instrument by Francis Poulenc (“poo-LANK”). Georges Barrère’s (“ba-RAIR’s”) premiere of one of these instruments made from a platinum alloy inspired the title of Edgard Varèse’s (“va-REZ’s”) *Density 21.5*. A lost golden one of these instruments was found by the virtuoso Jean-Pierre Rampal, who briefly taught this instrument to James Galway. For 10 points, name this transverse woodwind instrument whose smaller cousin is the piccolo.

ANSWER: **flute** [or transverse **flute**]

<Brandeis A, Classical Music>

9. A computational extension of a theory whose name begins with this term relaxes the “strong orthogonality condition” from Coulson–Fischer theory. An initial assumption in a theory whose name begins with this term that precluded the “charge-shift” family led to the failure to explain the antiaromaticity of cyclobutadiene. That theory whose name begins with this term arose from Walter Heitler and Fritz London’s solution to the Schrödinger equation for diatomic hydrogen, which was then expanded upon in a 1939 textbook by Linus Pauling. The AXE (“A-X-E”) method is used in a formalism beginning with this term that assigns labels such as “T-shaped” and “seesaw.” For 10 points, molecular geometries are described using the “electron pair repulsion” of what outermost electrons in an atom?

ANSWER: **valence** [accept **valence** electrons or **valence** shell electron pair repulsion or **valence** bond theory; prompt on **VSEPR**]

<MY, Chemistry>

10. The “reliance” of a person performing this type of action titles an influential *fiqh* manual by Ahmad ibn Naqib al-Misri. People performing this type of action are allowed to do *wudu* without removing a certain article of clothing for three days and nights. The final *asnaf*, or category of person eligible to receive *zakat*, are people performing this type of action, *ibn al-sabeel*. The second month of the Islamic calendar is named for this type of action, during which many people perform this action for Arba’in. By the practice of *qasr*, Muslims are allowed to shorten their prayers while performing this type of action, known as *safar* in Arabic. A form of this action that can be taken at any time of the year is known as *umrah*. For 10 points, Muslims are obligated to perform what action to reach Mecca as part of the *haji*?

ANSWER: **traveling** [or synonyms such as **journeying**, **moving**, or **migrating**; accept **pilgrimage**; accept specific methods of travel like **flying** or **camel-riding**; accept **going** to Mecca or **haji** until read; accept **safar** until read] (The first line refers to the *Reliance of the Traveller*. The article of clothing Muslims are allowed to keep on while performing *wudu* while traveling are their socks.)

<AK, Religion>

11. A doctor working for this institution recommended the boiling of a mixture called “rob” after a 1747 experiment with treatments like vitriol and vinegar. The writer Dava Sobel revived the spurious connection of a 1707 disaster for this institution to the creation of a prize-giving board that tested the work of John Harrison. The doctor James Lind pioneered clinical trials while working for this institution, which ran tests of the H4 clock designed to solve the longitude problem. Scientists accompanying this institution’s observation of the transit of Venus coined the name of Botany Bay. This institution undermined its own members by switching to West Indian limes, which lacked enough vitamin C to prevent scurvy. For 10 points, name this institution that brought botanists on the voyages of James Cook.

ANSWER: **Royal Navy** [or **British Navy**; accept **English Navy**; prompt on navy by asking “of what country?”; prompt on Royal Society by asking “what other institution was the Royal Society working with?”]  
<EC, European History>

12. *Two answers required.* An essay by one of these thinkers pairs the other with Coleridge as the “seminal minds” of their age. A claim made by one of these thinkers is the subject of a “proof” by the other based on an analogy between being “visible” and “desirable,” which G. E. Moore cited as a case of the naturalistic fallacy. One of these thinkers was quoted by the other as calling poetry no better than the game push-pin and led the Philosophical Radicals with the other’s father James. These are the two thinkers most discussed as exemplars of a view contrasted with intuitionism and egoism in Henry Sidgwick’s *The Methods of Ethics*. These thinkers differed on whether there are higher and lower pleasures in their versions of the greatest happiness principle. For 10 points, *Panopticon* and *On Liberty* are respectively by what two founders of utilitarianism?

ANSWER: Jeremy **Bentham** AND John Stuart **Mill** [accept J. S. **Mill** in place of “John Stuart Mill”]  
<TM, Philosophy>

13. During this decade, one leader delivered a speech in Johannesburg controversially comparing an agreement to the Treaty of Hudaibiyyah. In this decade, Dan Shomron signed a protocol named for the city of Hebron, where the Cave of the Patriarchs massacre occurred earlier in this decade. An intelligence agent codenamed “Champagne” allegedly had prior knowledge of an event in this decade perpetrated by Yigal Amir (“yee-GAHL ah-MEER”). The end of the First Intifada is generally dated to one of two events in this decade: the Madrid Conference, or an agreement that divided a region into Areas A, B, and C. This decade saw the signing of the Wye River memorandum and an agreement with Yasser Arafat that led to the assassination of Yitzhak Rabin (“yeets-HOCK ra-BEAN”). For 10 points, name this decade in which the Oslo Accords were signed.

ANSWER: **1990s** [prompt on ‘90s] (The first line refers to Yasser Arafat’s Johannesburg address.)  
<Florida A, World History>

14. Chains of these devices are used as multiplexers and demultiplexers in WDM systems. In one type of these devices, the quantity “pi times the square root of  $R$  all over one minus  $R$ ” defines the finesse. Gyroscopes such as RLGs and FOGs are examples of these devices that operate using the Sagnac (“sahn-YAHK”) effect. A type of these devices called an etalon consisting of a cavity that filters out waves not in resonance is named for Fabry and Péro. One of these optical devices consisting of a stone slab in a pool of mercury failed to detect a 0.04 fringe shift induced by the Earth’s motion. For 10 points, name these devices that split a beam of light and later recombine them to form patterns, which include one used to disprove the luminiferous aether in the Michelson–Morley experiment.

ANSWER: **interferometers** [accept **interferometry**; accept Michelson **interferometers** or Fabry–Pérot **interferometers**]  
<Brandeis A, Physics>

15. Edmund Waller's poem "On a Girdle" invokes this thing in its final line after asking "Give me but what this ribbon bound." A poem titled for this thing says "She's all states, and all princes, I, / Nothing else is. / Princes do but play us; compared to this." This physical thing is the focal object of the entire second stanza of "To the Virgins, to Make Much of Time." This thing is asked to go chide "Late school boys and sour prentices" in a John Donne aubade titled for it. The final lines of "To His Coy Mistress" state that though a pair cannot make this thing "Stand still," they can make it "run." A sonnet whose first line ends with the word for this thing later states "If snow be white, why then her breasts are dun." For 10 points, Shakespeare's Sonnet 130 says that a "mistress' eyes are nothing like" what object?

ANSWER: Sun [accept "The Sun Rising" or "My mistress' eyes are nothing like the sun"; accept sunbeams or sunlight; prompt on world by asking "what word is specifically used in that poem?"] ("To the Virgins, to Make Much of Time" is by Robert Herrick.)

<TH, British Literature>

16. It's not Macon, Georgia, but this city's Cannonball House is located across from the Esplanade that hosts its Military Tattoo. This city's Gilded Balloon, Underbelly, Pleasance, and Assembly make up its "Big Four" venues. In this city, local stone was used to build the Canongate Wall of a government building designed to mirror an extinct volcano called Arthur's Seat. Heavy investment has gentrified this city's port area of Leith ("leeth"). The world's largest performing arts festival is this city's Festival Fringe. This city's castle is at one end of the Royal Mile, which ends in the east at Holyrood Palace. This city is connected to the county of Fife by the world's second-longest cantilever bridge. For 10 points, what largest city on the Firth of Forth is the capital of Scotland?

ANSWER: Edinburgh ("ED-in-bur-uh") [or Dùn Èideann]

<EC, Geography>

17. *Description acceptable.* The sage Bhringi performs this action to avoid Parvati while circumambulating around Shiva, causing him to be cursed with weakness until Shiva gives him a third leg. During the Kurukshetra War, Krishna performs this action to provide Arjuna's son Aravan with the last of three promised boons. Bhishma laid down his weapons because he refused to fight a warrior who underwent this action named Shikhandi. While stealing the elixir of life from the asuras, Vishnu performs this action to become the avatar Mohini. In Greek myth, one instance of this action occurs when a pair of copulating snakes is interrupted by a blind prophet. For 10 points, name this transformation undergone by Tiresias, as well as a son of Hermes and Aphrodite named Hermaphroditus.

ANSWER: sex change [or gender transition; accept becoming female or becoming male; accept not conforming to gender roles or being intersex or otherwise existing outside the gender binary; prompt on turning into an animal until "Krishna" is read by asking "what other physical change was made?"; prompt on reincarnation by asking "what physical change accompanied that action?"]

<Brandeis A, Mythology>

18. This film's director gave its composer only the words "festival" and "requiem" as ideas for its soundtrack, which heavily features the percussion of a jegog troupe. A boy watches a tiny toy car, a rabbit, and a bear slowly climb on his pillow in a scary scene from this film, whose production resulted in the "creation" of 50 new colors. This film's title card appears in blood red over a shot of a massive crater after an explosion. Films like *Nope* have recreated a shot from this film in which the protagonist's motorcycle slides away from the camera. A teenager who wears a red jacket with a pill design tries to rescue his friend from the military in 2019 in this 1988 film by Katsuhiro Otomo. For 10 points, the telekinetic Tetsuo wreaks havoc in "Neo-Tokyo" in what cyberpunk anime film?

ANSWER: Akira (The jegog troupe is Geinoh Yamashirogumi.)

<AP, Other Fine Arts>

19. It's not string-related, but an optimization of this task is given by the "method of four Russians." Cache-aware algorithms that perform this task may use "tiled" layouts of size equal to the square root of the cache size. In 2024, Virginia Vassilevska Williams's team developed an algorithm for this task that marginally improved a bound previously established by her and Alman. The search targets of Deepmind's AlphaTensor system are efficient algorithms for this task, which seek to improve upon a divide-and-conquer algorithm for this task that creates seven subproblems instead of an expected eight and was developed by Strassen. This task is equivalent to composing two linear transformations. For 10 points, name this non-commutative operation that determines grid entries by taking inner products of rows and columns.

ANSWER: **matrix multiplication** [accept descriptions of **multiply** **matrices**; reject "multiplication" or "scalar multiplication"]

<Maryland A, Other Science>

20. In a novel from this country, a writer first encounters the lost novel *The Labyrinth of Inhumanity* after sleeping with an older acclaimed author he calls the "Spider-Mother." That novel from this country was influenced by Roberto Bolaño, draws from the Yambo Ouologuem ("wo-lo-GHEM") plagiarism scandal, and is titled *The Most Secret Memory of Men*. In a novel from this country, a woman undergoes forty days of solitude after her polygamous husband Modou dies from a heart attack. An author from this country wrote an epistolary novel in which Ramatoulaye ("rah-mah-too-LYE") writes to her friend Aissatou ("eye-sah-TOO") after becoming widowed; that novel is *So Long a Letter*. In 1960, the Négritude poet of "Black Woman" became this country's first president. For 10 points, name this home country of Mohamed Mbougar Sarr, Mariama Bâ, and Leopold Senghor.

ANSWER: **Senegal** [or Republic of **Senegal**; or République du **Sénégal**; or Réewum **Senegaal**; or Ndenndaandi **Senegaal**]

<Maryland A, World Literature>

## Bonuses

1. After a group of alcohol deities passed out from partying, this figure crushed them by destroying their hut, turning them into the Pleiades. For 10 points each:

[10h] Name this figure who faked his death by allowing ants to carry clippings of hair and nails out of a hole. After the death of the Four Hundred Boys, this crab-loving demon is tricked into having a mountain dropped on him.

ANSWER: Zipacna

[10e] These figures killed Zipacna to avenge the death of the Four Hundred Boys. These two figures avenge the death of their father and uncle by defeating the Lords of Xibalba at the Mayan ball game in the *Popol Vuh*.

ANSWER: Maya Hero Twins [or Hunahpu AND Xbalanque]

[10m] This father of Zipacna and Cabracan pretends to be the sun and moon in one myth. This “self-magnifying” bird demon had his jeweled teeth replaced with corn after one of the Hero Twins shot them with a blowgun.

ANSWER: Seven Macaw [or Vucub Caquix; or Wuqub’ Kaqix]

<Maryland A, Mythology>

2. A novel by this author begins with the line: “Waking up begins with saying *and* and *now*.” For 10 points each:

[10m] Name this English-born novelist who wrote about the grieving gay professor George in *A Single Man*. This author’s novel *Goodbye to Berlin* inspired the musical *Cabaret*.

ANSWER: Christopher Isherwood [or Christopher William Bradshaw Isherwood]

[10h] Isherwood created this wig-wearing communist agent who titles a novel often paired with *Goodbye to Berlin*. In that novel, the detached aesthete William Bradshaw meets this character on a train from Amsterdam.

ANSWER: Mr. Norris [or Arthur Norris; accept *Mr. Norris Changes Trains*]

[10e] Because he is “ugly, effeminate, and a masochist,” Joshua Glenn characterized Mr. Norris as the “anti-” this character. This staple of espionage fiction is the star of the novels *The Spy Who Loved Me* and *Dr. No*.

ANSWER: James Bond [accept Agent 007]

<Maryland A, British Literature>

3. Some zinc-containing batteries use an unusual tetroxide of this element containing cations in the plus-one and plus-three oxidation states. For 10 points each:

[10m] Name this element whose plus-one cation is central in a diamine complex that precipitates out upon acting as an oxidizing agent. This element’s nitrate is used as a test for chloride ions.

ANSWER: silver [or Ag]

[10e] The formation of a “silver mirror” is a positive result in Tollens’ test, which distinguishes types of this functional group defined by a C=O double bond.

ANSWER: carbonyl [accept aldehyde or ketone]

[10h] Silver(I) (“silver one”) catalysts are a common choice for this reaction that starts with a diazoketone. This reaction’s ketene intermediate can undergo a two-plus-two cycloaddition to form a four-membered ring.

ANSWER: Wolff rearrangement [prompt on rearrangement]

<WashU B, Chemistry>

4. Note to moderator: Read the answerline carefully. After leaving one of these places, the protagonist of the unfinished novel *Everything Flows* visits his scientist cousin, whom he depicts as “Judas I” in an embedded play. For 10 points each:

[10m] The life of poet Oskar Pastior inspired the depiction of teenager Leo Auberg’s time in what sort of place in Herta Müller’s novel *The Hunger Angel*?

ANSWER: **gulags** [or **work camps**; or **labor camps**; or **prison camps**; or **internment camps**; accept **Soviet** or **Russian concentration camps** or **concentration camps** in the **USSR**; prompt on **camps** or **concentration camps** by asking “in what country?”; reject “death camps” or “extermination camps”]

[10h] This Soviet author of *Everything Flows* drew on his time as a war correspondent to fictionalize the Eastern Front of World War II in the *War and Peace*-esque doorstopper *Life and Fate*.

ANSWER: Vasily **Grossman** [or Vasily Semyonovich **Grossman**]

[10e] The protagonist of *Everything Flows* has this first name. A gulag provides the setting for an Aleksandr Solzhenitsyn novel that follows “One Day in the Life of” a man with this first name.

ANSWER: **Ivan** [or **Ivan** Denisovich Shukhov; accept *One Day in the Life of* **Ivan** Denisovich or *Odin den’* **Ivana** Denisovicha]

<Brandeis A, European Literature>

5. This actress is likened to “red bodega roses” and called the “queen of South Queens” in a song titled for her, which precedes an interlude to end St. Vincent’s album *Daddy’s Home*. For 10 points each:

[10h] Name this Warhol superstar. This trans actress titles a song in which the singer claims that “I’ve come to hate my body / and all that it requires” and plans to “watch the blue birds fly.” Her first or last name is acceptable.

ANSWER: **Candy** Darling [or Candy **Darling**; accept “**Candy** Says”]

[10e] “Candy Says” is by this 1960s band, whose singer Lou Reed also sang about her on “Walk on the Wild Side.” A banana adorns Andy Warhol’s cover art for this band’s debut album, which is titled for them “and Nico.”

ANSWER: The **Velvet Underground** [prompt on The **Velvets**]

[10m] Despite rumors, Ray Davies insisted that this song was not about a date with Candy Darling. This song set at a “club down in old Soho” describes someone who “squeezed me tight” and “nearly broke my spine.”

ANSWER: “**Lola**” (by The Kinks)

<TM, Pop Culture>

6. This law can be derived by using the equipartition theorem to determine the number of half-wave cycles that can fit within an arbitrary volume. For 10 points each:

[10h] Name this law that predicts a radio spectral index of 2 in the long-wavelength regime. This law can be used to approximate the brightness temperature as inversely proportional to the square of frequency.

ANSWER: **Rayleigh–Jeans** law

[10e] The “ultraviolet catastrophe” predicted by the Rayleigh–Jeans law was fixed by this law of blackbody radiation that also demonstrated that the energy emitted by a blackbody is quantized.

ANSWER: **Planck**’s law

[10m] The Rayleigh–Jeans law holds when the energy quantum is smaller than this expression. The equipartition theorem states that each degree of freedom contributes one-half of this expression.

ANSWER:  **$kT$**  [or  **$k$ -sub- **$B$**   **$T$** ; or  **$k$**  times  **$T$** ; or  **$k$ -sub- **$B$**  times  **$T$** ; or the product of **Boltzmann’s constant** and **temperature**; accept **one over** thermodynamic **beta**; accept **inverse** of thermodynamic **beta**; reject “thermodynamic beta”]****

<Maryland A, Physics>



7. The Renaissance composer Gioseffo Zarlino was one of the first to strictly distinguish this genre from a related form he simply called “imitation.” For 10 points each:

[10m] Name this genre of a one-movement sonata whose theme was legendarily inspired by the cat Pulcinella. The ends of these compositions may use techniques like stretto and diminution.

ANSWER: **fugue**

[10e] The *Cat Fugue* is the 30th in a set of 555 keyboard sonatas by a composer with this surname and first name Domenico. His father with this surname was a leading figure of the Neapolitan school of opera.

ANSWER: **Scarlatti** [accept Domenico **Scarlatti** or Alessandro **Scarlatti**]

[10h] The *Cat Fugue* is number 30 in a chronological catalog of Scarlatti sonatas named for this Yale musicologist, which largely replaced the more comprehensive Longo numbers.

ANSWER: Ralph **Kirkpatrick** [prompt on **K**.]

<JC, Classical Music>

8. This historian won the 1940 Pulitzer Prize for History for the second part of a biography divided into *The Prairie Years* and *The War Years*. For 10 points each:

[10m] Name this historian and poet who wrote the six-volume biography *Abraham Lincoln*. Those books by this historian inspired Robert Sherwood’s play *Abe Lincoln in Illinois*.

ANSWER: Carl **Sandburg** [or Carl August **Sandburg**]

[10e] Sandburg devoted much of *The War Years* to the congressional plot against this Secretary of State under Lincoln, whose work to purchase Alaska was called his “Folly.”

ANSWER: William **Seward** [or William Henry **Seward**]

[10h] In an *Atlantic* review, Stephen Vincent Benét cited this politician as one of many “Congressmen, cranks, [and] soldiers” whom Sandburg depicted. The Birchard Letter addressed this politician’s arrest for violating General Order 38.

ANSWER: Clement **Vallandigham** (“vuh-LAN-dig-um”) [or Clement Laird **Vallandigham**]

<NS, American History>

9. Michael Devitt introduced the idea that these events are affected by subsequent interactions, which he called “multiple groundings.” For 10 points each:

[10h] Give this term for the moment of “dubbing” that sets off a “causal chain.” Saul Kripke used this term in *Naming and Necessity* for the event when a name is first assigned to something and becomes a rigid designator.

ANSWER: **baptism** [or initial **baptism**; accept **baptismal** ceremony; accept word forms like **baptizing**]

[10m] Kripke’s account opposed a prior theory that treats the meaning of a name as equivalent to the set of these phrases. The essay “On Denoting” distinguishes between “definite” and “indefinite” examples of these phrases.

ANSWER: **descriptions** [accept **descriptivism** or word forms like **describing**]

[10e] This Cambridge philosopher laid the groundwork for his descriptivist theory of names in “On Denoting.” He also co-wrote *Principia Mathematica* with Alfred North Whitehead.

ANSWER: Bertrand **Russell**

<Sheffield A, Philosophy>

10. Jean de Béthencourt (“bay-tawn-COOR”) was made king of this region after beginning its conquest in 1402, perhaps to acquire a source of dye made from *orchil* lichen. For 10 points each:

[10m] Name this region whose Guanche people were conquered by Castille. The sugar plantation model later introduced to the Caribbean was developed in this region and Portuguese possessions like Madeira.

ANSWER: **Canary Islands** [or **Canaries**; accept Islas **Canarias**]

[10e] Spanish conquest of the Canaries began under the third king of Castille with this name. Madeira was discovered by explorers sponsored by a Portuguese prince with this name nicknamed the “Navigator.”

ANSWER: **Henry** [or **Enrique**; or **Henrique**; or **Henry** III of Castile; or **Henry** the Suffering; or **Enrique** el Doliente; or **Henry** the Navigator; or Dom **Henrique**, o Navegador]

[10h] The introduction of these insects revived the Canarian economy after the decline of sugar. Spanish officials recorded Mexican peoples’ harvest of these insects, which produce a red dye later used in British military uniforms.

ANSWER: **cochineal** [or **Dactylopius coccus**; accept **cochinilla**]

<EC, European History>

11. Adolf Hitler’s interest in this sculpture led him to purchase its “Palombara” version, while its “Townley” version incorrectly has a head facing down. For 10 points each:

[10e] Name this lost sculpture by Myron that depicts its title athlete as he turns to hurl an oblate weight.

ANSWER: **Discobolus** [or *The Discus Thrower*]

[10h] Myron’s *Discobolus* has attributes of both the High Classical style and this earlier style. The *Kritios Boy* is in this transitional Early Classical style characterized by greater naturalism than the preceding Archaic period.

ANSWER: **Severe** style

[10m] Severe-style sculptures typically lacked a visual motif named for an “Archaic” form of this feature, which was common on *kouroi*. The nickname of the fat monk Budai reflects his typical depiction with this feature.

ANSWER: **smile** [or word forms like **smiling**; or **laughing** or **laughter**; accept Archaic **smile**; accept **Laughing** Buddha or **Xiào fú**]

<Florida A, Painting and Sculpture>

12. In one number, a group of people sing that a structure around this place “[keeps] us free” and “keeps out the enemy” after a character asks “why do we build the wall?” For 10 points each:

[10m] Name this place where a girl stays to escape the cold in the number “Hey, Little Songbird.” In a musical titled for this place, the number “If It’s True” chronicles attempts to rescue this place’s factory workers.

ANSWER: **Hadestown** [prompt on underworld; reject “Hades”]

[10h] Hades doesn’t appear in this musical, although its fifth entry occurs in the Greek underworld. “Wouldn’t You Like” and “Hold Them Down” are among the hits from this series of nine “sagas” by Jorge Rivera-Herrans.

ANSWER: **EPIC: The Musical**

[10e] In this musical, Kevin Price has a “spooky hell dream” involving Genghis Khan and Jeffrey Dahmer. This musical by the co-creators of *South Park* is titled for a religious text that Price reads to Ugandan villagers.

ANSWER: *The **Book of Mormon***

<Florida A, Other Fine Arts>

13. In a namesake hypothesis, Heiko Braak described how this disease begins in the brain's olfactory nucleus. For 10 points each:

[10e] Name this neurodegenerative condition characterized by a shuffling gait, rigidity, and tremors.

ANSWER: **Parkinson's** disease [or **PD**]

[10h] Braak suggested that one cause of Parkinson's is the aggregation of this protein within Lewy bodies, inhibiting the release of dopamine. High accumulation of this protein may also cause multiple system atrophy.

ANSWER: **alpha-synuclein** [or **SCNA**; prompt on **synuclein**]

[10m] Parkinson's can be detected using a type of MRI imaging named for this substance. Dopaminergic neuron loss during Parkinson's occurs in an area of the brain containing a high level of this substance called the substantia nigra.

ANSWER: **melanin** [accept **neuromelanin**]

<Sheffield A, Biology>

14. At 600 pages in Gladys Yang's translation, this novel is the shortest of the six novels canonized for Western audiences by H. T. Hsia ("shah"). For 10 points each:

[10h] Name this novel by Wu Jingzi that mocks single-minded takers of the Civil Service Exam.

ANSWER: *The **Scholars*** [or ***Rúlín Wàishǐ***; accept ***Unofficial History of the Forest of Scholars***]

[10m] Though written in a later dynasty, *The Scholars* is set during this Chinese dynasty. *Journey to the West* and *Romance of the Three Kingdoms* were written during the rule of this dynasty.

ANSWER: **Ming** Dynasty [or Dà **Míng**]

[10e] In *The Scholars*, this novel's opening is parodied when Wang Mien watches stars of the "Scholars" constellation fall to earth. This Ming Dynasty novel follows a group of 108 bandits called the Stars of Destiny.

ANSWER: ***Water Margin*** [or ***Outlaws of the Marsh*** or ***All Men Are Brothers*** or ***Shui Hu Zhuan***]

<TH, World Literature>

15. *Description acceptable.* The wife of the poet Francisco González Bocanegra locked him in a bedroom and only released him when he wrote this song's lyrics and slid them under the door. For 10 points each:

[10h] Name this song whose performers often mispronounce its first verse using the nonexistent word "masiosare." Giovanni Bottesini conducted this song's first public performance on September 16, 1854.

ANSWER: **Mexican National Anthem** [or **Himno Nacional Mexicano**; or **Mexihcaletepetlacuicalt**; accept "**Mexicans, at the cry of war**" or "**Mexicanos, al grito de guerra**" or "**Ihcua yaotl tenochnotzas mexihca**"; prompt on national **anthem** by asking "of which country?"]

[10m] On the annual eve of Independence Day, the President sings the national anthem after re-enacting Miguel Hidalgo's bell-ringing in this city, an event known as this city's namesake "cry."

ANSWER: **Dolores** [or **Dolores** Hidalgo; or Cry of **Dolores**; or Grito de **Dolores**]

[10e] This Mexican president commissioned the lyrics contest. This wooden-legged general won at the Alamo, but lost at San Jacinto against Sam Houston's Texas revolutionaries.

ANSWER: Antonio López de **Santa Anna** [or Antonio de Padua María Severino López de **Santa Anna** y Pérez de Lebrón]

<AP, World History>

16. The opening scene of season 6 of *The Sopranos* is set to this author's reading of the "Seven Souls" passage from one of his novels inspired by the Egyptian *Book of the Dead*. For 10 points each:

[10h] Name this novelist of *The Western Lands*. This author's thousand-page *Word Hoard* provided the material for an experimental technique that he incorporated into his novel *The Soft Machine*.

ANSWER: William S. **Burroughs** [or William Seward **Burroughs** II] (*The Soft Machine* uses the cut-up technique.)

[10e] *The Western Lands* was influenced by this author's incorporation of *The Book of the Dead* into his novel *Ancient Evenings*. This New Journalism author also wrote *The Executioner's Song* and *The Armies of the Night*.

ANSWER: Norman **Mailer** [or Norman Kingsley **Mailer**; or Nachem Malech **Mailer**]

[10m] This author used *The Book of the Dead* to subtitle his self-destructing electronic poem *Agrippa*. Henry Case and the "razorgirl" Molly Millions appear in this author's novel *Neuromancer*.

ANSWER: William **Gibson** [or William Ford **Gibson**]

<HG, American Literature>

17. A 1998 paper by Kolb et al. proposed a high-energy form of these particles with the suffix "zilla" whose abstract ends with the claim that "size does matter." For 10 points each:

[10h] Name these particles that have interaction cross-sections of less than 10-to-the-negative-5 inverse-square GeV. Supersymmetric extensions readily predict the existence of these particles, called their namesake "miracle."

ANSWER: **WIMPs** [or **weakly interacting massive** particles; accept **WIMP**zillas; prompt on **dark matter**]

[10m] WIMPs are thought to exist in these structures described in simulations by the NFW profile. Simulations of these structures that surround galaxies form "cuspy" density profiles instead of "cores."

ANSWER: dark matter **halos**

[10e] Attempts at indirect detection of WIMPs by the Alpha Magnetic Spectrometer search for these particles. These extrasolar particles propagate near the speed of light and consist primarily of protons and alpha nuclei.

ANSWER: **cosmic rays**

<Sheffield A, Other Science>

18. A saint of this name was legendarily inspired to compose the song "Sukhakarta Dukhaharta" after visiting the Sri Mayureshwar Mandir ("muh-yoo-RAYSH-wur MUN-dir"), which is the first stop in the Ashtavinayaka

("ush-tuh-vin-EYE-uh-kuh") pilgrimage. For 10 points each:

[10h] Give this name also adopted by the author of *In Quest of God*, the saint Vittal Rao ("VIT-tull RAO"), and the author of a book on spirituality, *Be Here Now*.

ANSWER: **Ramdas** ("RAHM-doss") [accept Baba **Ram Dass**; accept Swami **Ramdas**; accept Samarth **Ramdas**]

[10e] "Sukhakarta Dukhaharta" is performed during a festival celebrating this god, who is often offered *modak* as a sweet. This elephant-headed Hindu god is the son of Shiva and Parvati.

ANSWER: **Ganesha** [or **Ganapati**; or **Vinayaka**; or **Lambodara**; or **Pillaiyara**]

[10m] "Sukhakarta Dukhaharta" is sung during one of these rituals performed during *pujas*. These rituals often include singing *bhajans* while a plate containing a flame is waved in a circle in front of an idol.

ANSWER: **arti** [or **aarti**; or **arati**]

<WashU B, Religion>

19. Juan Linz argued that this institution could result in two separate bodies claiming to represent the people's will. For 10 points each:

[10m] Name this institution that titles Linz's essay on their "Perils." Arthur Schlesinger discussed the "Imperial" form of this institution to describe its holders' excesses of power.

ANSWER: **presidency** [or **presidentialism**; or **POTUS**; accept descriptions like having a **president**]

[10e] Linz argues that presidentialism is weak when there exists a "dual" form of legitimacy with a democratic system known by this term. In England, this term refers to a body consisting of the Houses of Lords and Commons.

ANSWER: **Parliament** [or **parliamentary**]

[10h] This political scientist argued that the role of the presidency is "merely the power to persuade" in his book *Presidential Power and the Modern Presidents*.

ANSWER: Richard **Neustadt** [or Richard Elliott **Neustadt**]

<Brandeis A, Social Science>

20. Immigration Minister Fraser Colman described these actions as "alien to our way of life." For 10 points each:

[10h] Name these actions that began under Norman Kirk's government in the 1970s. These actions disproportionately targeted Pasifika migrants who were purported to have been illegal overstayers.

ANSWER: **dawn raids**

[10e] A "Polynesian" movement named for these animals organised "counter-raids" to the dawn raids. That movement was influenced by a Black Power movement named for these animals founded in Oakland, California.

ANSWER: **panthers** [accept Polynesian **Panthers** or Black **Panthers**]

[10m] In 2021, Jacinda Ardern issued a "formal and unreserved apology" for the dawn raids, which had continued into the late 1970s under this New Zealand politician. This prime minister promoted the Think Big economic strategy.

ANSWER: Robert **Muldoon** [or Robert David **Muldoon**]

<AT, Other History>